

**Table S1. Significantly upregulated miRs with FC > 10 in AA-AIT patients versus HC analyzed by miR microarray**

systematic_name	p ([AA - AIT] Vs [HC])	Regulation ([AA - AIT] Vs [HC])	FC ([AA - AIT] Vs [HC])	control_type	start	chr	stop	active_sequence
hsa-miR-1233-5p	0.002620704	up	10.037859	0	34674294	chr15	34674283	TGCCGTGCCCTGG
hsa-miR-125a-5p	0.012394682	up	11.810931	0				TCACAGGTAAAGGGTCTC
hsa-miR-130a-3p	0.013393003	up	11.306049	0	57408729	chr11	57408746	ATGCCCTTTAACATTGCA
hsa-miR-130b-3p	0.007554296	up	15.6091385	0	22007648	chr22	22007664	ATGCCCTTTCATCATTGC
hsa-miR-192-5p	0.013092756	up	10.644565	0	64658652	chr11	64658635	GGCTGTCAATTCATAGGTC
hsa-miR-199a-3p	0.008666725	up	15.315633	0				TAACCAATGTGCAGACTACT
hsa-miR-211-3p	0.001573525	up	11.126227	0				GCACCCCTTTGCTG
hsa-miR-212-3p	0.002254702	up	10.611317	0	1953655	chr17	1953641	GGCCGTGACTGGAGAC
hsa-miR-362-3p	0.002103268	up	10.970899	0				TGAATCCTTGAATAGGTGTG
hsa-miR-363-3p	0.016679212	up	11.391617	0	133303478	chrX	133303461	TACAGATGGATACCGTGCA
hsa-miR-424-5p	9.31E-04	up	28.406324	0	133680675	chrX	133680655	TTCAAAACATGAATTGCTGCTG
hsa-miR-4463	0.002363124	up	10.404692	0				GGCCCCACCCCA
hsa-miR-451a	0.03072449	up	21.251144	0	27188424	chr17	27188404	AACTCAGTAATGGTAACGGTTT
hsa-miR-590-5p	0.008949685	up	12.158628	0	73243480	chr7	73243500	CTGCACTTTTATGAATAAGCTC
hsa-miR-6768-5p	0.002414774	up	10.242666	0				CAGGGCCCCGC
hsa-miR-6772-5p	0.00259458	up	10.065361	0				CCTCAGCTCCAGCC
hsa-miR-6880-5p	0.002840157	up	10.099302	0				GAGCTGCCCTCTTCC

**Table S2. Gene expression changes for secreted genes from cut set in Fig. 2C of AA-AIT versus HC**

ProbeName	p ([AA-] Vs [HC])	Regulation ([AA-] Vs [HC])	FC ([AA-] Vs [HC])	GeneSymbol	Description
A_33_P3254136	0.04589422	down	-1.6951239	PKHD1L1	Homo sapiens polycystic kidney and hepatic disease 1 (autosomal recessive)-like 1 (PKHD1L1), mRNA [NM_177531]
A_23_P377299	0.010985544	down	-2.232017	ECE2	Homo sapiens endothelin converting enzyme 2 (ECE2), transcript variant 1, mRNA [NM_014693]
A_23_P120883	0.003061266	down	-2.663732	HMOX1	Homo sapiens heme oxygenase (decycling) 1 (HMOX1), mRNA [NM_002133]
A_23_P34744	3.21E-04	down	-3.5662146	CTSK	Homo sapiens cathepsin K (CTSK), mRNA [NM_000396]
A_23_P167349	0.003025295	down	-2.3656504	GC	Homo sapiens group-specific component (vitamin D binding protein) (GC), transcript variant 1, mRNA [NM_000583]
A_24_P382119	0.01466924	down	-1.5465069	MTMR4	Homo sapiens myotubularin related protein 4 (MTMR4), mRNA [NM_004687]
A_23_P88522	0.035289925	down	-2.3655894	NMB	Homo sapiens neuromedin B (NMB), transcript variant 1, mRNA [NM_021077]
A_33_P3258091	0.008205638	down	-1.7170736	RNPEP	Homo sapiens arginyl aminopeptidase (aminopeptidase B) (RNPEP), mRNA [NM_020216]
A_32_P190769	0.034484852	down	-1.769333	C1QTNF7	Homo sapiens C1q and tumor necrosis factor related protein 7 (C1QTNF7), transcript variant 3, mRNA [NM_031911]
A_23_P127891	0.01149975	down	-1.8091713	BDNF	Homo sapiens brain-derived neurotrophic factor (BDNF), transcript variant 1, mRNA [NM_170735]
A_23_P154894	0.04197503	down	-2.02658	CSTB	Homo sapiens cystatin B (stefin B) (CSTB), mRNA [NM_000100]
A_24_P48723	0.003000776	down	-2.6056206	PTGIS	Homo sapiens prostaglandin I2 (prostacyclin) synthase (PTGIS), mRNA [NM_000961]
A_33_P3221783	0.0438532	down	-1.6394169	TSLP	Homo sapiens thymic stromal lymphopoietin (TSLP), transcript variant 1, mRNA [NM_033035]
A_21_P0014015	0.013375661	down	-1.9720199	CNP	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:HGNC Symbol;Acc:HGNC:2158] [ENST00000592861]
A_23_P165608	0.001799016	down	-2.183463	SEMA4F	Homo sapiens sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F (SEMA4F), transcript variant 1, mRNA [NM_004263]
A_23_P156061	0.014953146	down	-1.7880483	LNPEP	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), transcript variant 1, mRNA [NM_005575]
A_24_P30557	0.04201902	down	-1.7825613	TBX5	Homo sapiens T-box 5 (TBX5), transcript variant 1, mRNA [NM_000192]
A_23_P166269	0.040229946	down	-3.1794202	FAM3B	Homo sapiens family with sequence similarity 3, member B (FAM3B), transcript variant 1, mRNA [NM_058186]
A_24_P223874	0.03814447	down	-1.7687726	SFTPA1	Homo sapiens surfactant protein A1 (SFTPA1), transcript variant 1, mRNA [NM_005411]
A_33_P3319231	0.022389136	down	-1.7922528	AIFM2	apoptosis-inducing factor, mitochondrion-associated, 2 [Source:HGNC Symbol;Acc:HGNC:21411] [ENST00000373248]
A_24_P196528	0.006666233	down	-4.824404	CRB1	Homo sapiens crumbs family member 1, photoreceptor morphogenesis associated (CRB1), transcript variant 1, mRNA [NM_201253]
A_23_P256413	0.014506795	down	-1.546428	CMTM7	Homo sapiens CKLF-like MARVEL transmembrane domain containing 7 (CMTM7), transcript variant 1, mRNA [NM_138410]
A_23_P37441	0.006178621	down	-1.6903744	B2M	Homo sapiens beta-2-microglobulin (B2M), mRNA [NM_004048]
A_33_P3387272	0.016878404	down	-1.5859249	EEF1A1	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA [NM_001402]
A_33_P3231367	0.026665315	down	-1.55324	ATXN10	Homo sapiens ataxin 10 (ATXN10), transcript variant 1, mRNA [NM_013236]
A_33_P3379886	0.031061854	down	-1.6620039	FGF2	Homo sapiens fibroblast growth factor 2 (basic) (FGF2), mRNA [NM_002006]

A_33_P3351249	0.028651122	down	-2.8922467	CXCL16	Homo sapiens chemokine (C-X-C motif) ligand 16 (CXCL16), transcript variant 2, mRNA [NM_001100812]
A_23_P212617	0.035766084	down	-3.1347427	TFRC	Homo sapiens transferrin receptor (TFRC), transcript variant 1, mRNA [NM_003234]
A_23_P1552	0.03114783	down	-1.9359329	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_33_P3405839	0.014896964	down	-2.2884395	TPO	Homo sapiens thyroid peroxidase (TPO), transcript variant 5, mRNA [NM_175722]
A_24_P179351	0.002013917	down	-1.75119	TPT1	Homo sapiens tumor protein, translationally-controlled 1 (TPT1), transcript variant 2, mRNA [NM_003295]
A_23_P165727	0.021435175	down	-1.7803415	MSTN	Homo sapiens myostatin (MSTN), mRNA [NM_005259]
A_33_P3215277	0.016580919	down	-1.5131134	TTBK2	Homo sapiens tau tubulin kinase 2 (TTBK2), mRNA [NM_173500]
A_23_P105833	0.019694157	down	-1.8237839	BIVM	Homo sapiens basic, immunoglobulin-like variable motif containing (BIVM), transcript variant 1, mRNA [NM_017693]
A_33_P3269203	0.009001244	down	-2.067726	SERPINH1	Homo sapiens serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) (SERPINH1), transcript variant 1, mRNA [NM_001207014]
A_24_P202497	0.001532514	down	-2.4436843	TWSG1	Homo sapiens twisted gastrulation BMP signaling modulator 1 (TWSG1), mRNA [NM_020648]
A_33_P3226377	0.02571644	down	-1.5894933	PRH2	Homo sapiens proline-rich protein Haell subfamily 2 (PRH2), transcript variant 1, mRNA [NM_005042]
A_23_P18123	0.001012369	down	-3.4714062	NLGN1	Homo sapiens neuroligin 1 (NLGN1), mRNA [NM_014932]
A_24_P276628	0.018577266	down	-1.7116379	PPT1	Homo sapiens palmitoyl-protein thioesterase 1 (PPT1), transcript variant 1, mRNA [NM_000310]
A_24_P940135	0.003254435	down	-1.8294909	CTBS	Homo sapiens chitinase, di-N-acetyl- (CTBS), mRNA [NM_004388]
A_33_P3292854	0.04606215	down	-1.5553663	CALR	Homo sapiens calreticulin (CALR), mRNA [NM_004343]
A_23_P55544	0.005791944	down	-2.518787	CCBE1	Homo sapiens collagen and calcium binding EGF domains 1 (CCBE1), mRNA [NM_133459]
A_23_P155351	0.029254718	down	-1.5775158	BTD	Homo sapiens biotinidase (BTD), transcript variant 3, mRNA [NM_000060]
A_33_P3280385	0.036897637	down	-1.6241232	COL6A3	Homo sapiens collagen, type VI, alpha 3 (COL6A3), transcript variant 3, mRNA [NM_057165]
A_24_P140405	0.01727693	down	-1.6926756	ADAMTS3	Homo sapiens ADAM metalloproteinase with thrombospondin type 1 motif, 3 (ADAMTS3), mRNA [NM_014243]
A_23_P315364	0.048094835	down	-6.3066316	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_33_P3420900	0.0027628	down	-3.1708844	PATE2	Homo sapiens prostate and testis expressed 2 (PATE2), mRNA [NM_212555]
A_24_P306726	0.004378866	down	-1.7680008	TPT1	Homo sapiens tumor protein, translationally-controlled 1 (TPT1), transcript variant 2, mRNA [NM_003295]
A_23_P79968	0.013670841	down	-1.8257375	PCSK2	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2), transcript variant 1, mRNA [NM_002594]
A_23_P94533	0.04181123	down	-3.1553388	CTSL	Homo sapiens cathepsin L (CTSL), transcript variant 1, mRNA [NM_001912]
A_24_P277367	0.012249339	down	-3.093352	CXCL5	Homo sapiens chemokine (C-X-C motif) ligand 5 (CXCL5), mRNA [NM_002994]
A_33_P3219651	0.024468817	down	-1.6940436	BMPER	Homo sapiens BMP binding endothelial regulator (BMPER), mRNA [NM_133468]
A_24_P784765	0.004449119	down	-2.5754733	CD59	Homo sapiens CD59 molecule, complement regulatory protein (CD59), transcript variant 1, mRNA [NM_203330]
A_23_P322086	0.043955486	down	-2.1909728	SPX	Homo sapiens spexin hormone (SPX), mRNA [NM_030572]
A_23_P39799	0.047228064	down	-1.5178727	LOXL3	Homo sapiens lysyl oxidase-like 3 (LOXL3), transcript variant 1, mRNA [NM_032603]
A_33_P3302255	0.00584417	down	-1.5812622	ITM2B	Homo sapiens integral membrane protein 2B (ITM2B), mRNA [NM_021999]
A_33_P3340769	0.008241517	down	-2.3538065	ADAM9	Homo sapiens ADAM metalloproteinase domain 9 (ADAM9), transcript variant 1, mRNA [NM_003816]
A_32_P97169	0.021822024	down	-1.6407976	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]
A_33_P3791263	0.022454448	down	-1.7147325	OLFM3	Homo sapiens olfactomedin 3 (OLFM3), transcript variant 3, mRNA [NM_001288823]
A_24_P412156	0.042167045	down	-1.6281822	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 2, mRNA [NM_000609]
A_23_P112554	0.012973307	down	-1.9025874	COL15A1	Homo sapiens collagen, type XV, alpha 1 (COL15A1), mRNA [NM_001855]
A_24_P365807	0.023668826	down	-1.8524894	EFNB1	Homo sapiens ephrin-B1 (EFNB1), mRNA [NM_004429]

A_23_P4161	0.021640265	down	-1.5776799	ARSG	arylsulfatase G [Source:HGNC Symbol;Acc:HGNC:24102] [ENST00000448504]
A_33_P3264269	0.045214143	down	-1.5820222	MOV10	Homo sapiens Mov10 RISC complex RNA helicase (MOV10), transcript variant 3, mRNA [NM_001286072]
A_23_P119936	0.042211678	down	-1.8051478	REG3A	Homo sapiens regenerating islet-derived 3 alpha (REG3A), transcript variant 2, mRNA [NM_138938]
A_23_P48886	0.006874017	down	-1.6188662	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P111402	0.039168965	down	-3.5393105	RSPO3	Homo sapiens R-spondin 3 (RSPO3), mRNA [NM_032784]
A_23_P128574	0.015405473	down	-2.8411486	ENOX1	Homo sapiens ecto-NOX disulfide-thiol exchanger 1 (ENOX1), transcript variant 1, mRNA [NM_017993]
A_33_P3423570	0.00183353	down	-1.9570544	METRNL	Homo sapiens meteorin, glial cell differentiation regulator (METRNL), mRNA [NM_024042]
A_23_P167493	0.026438981	down	-1.9005079	CARTPT	Homo sapiens CART prepropeptide (CARTPT), mRNA [NM_004291]
A_21_P0000176	0.030753985	down	-1.9211922	CDH13	Homo sapiens cadherin 13 (CDH13), transcript variant 5, mRNA [NM_001220491]
A_23_P157580	0.004990098	down	-1.8704803	SDCBP	Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant 1, mRNA [NM_005625]
A_33_P3369371	0.042074185	down	-3.077123	GPX3	Homo sapiens glutathione peroxidase 3 (plasma) (GPX3), mRNA [NM_002084]
A_33_P3210965	0.023431147	down	-1.9040838	TCTN1	Homo sapiens tectonic family member 1 (TCTN1), transcript variant 1, mRNA [NM_001082538]
A_23_P139648	0.03437484	down	-1.710147	IAPP	Homo sapiens islet amyloid polypeptide (IAPP), mRNA [NM_000415]
A_33_P3406623	0.010875562	down	-1.6663874	TNFSF12	Homo sapiens tumor necrosis factor (ligand) superfamily, member 12 (TNFSF12), transcript variant 1, mRNA [NM_003809]
A_23_P58396	0.008211567	down	-1.8691097	PDGFC	Homo sapiens platelet derived growth factor C (PDGFC), transcript variant 1, mRNA [NM_016205]
A_23_P160262	0.029616244	down	-1.6896813	ANGPTL3	Homo sapiens angiopoietin-like 3 (ANGPTL3), mRNA [NM_014495]
A_23_P101950	0.002596028	down	-1.9116484	MDH1	Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1), transcript variant 2, mRNA [NM_005917]
A_32_P142440	0.03160898	down	-4.4842424	PCSK9	Homo sapiens proprotein convertase subtilisin/kexin type 9 (PCSK9), transcript variant 1, mRNA [NM_174936]
A_33_P3261818	0.009510448	down	-1.6301882	MDH1	Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1), transcript variant 2, mRNA [NM_005917]
A_23_P201368	0.025726926	down	-1.5614562	CTBS	Homo sapiens chitinase, di-N-acetyl- (CTBS), mRNA [NM_004388]
A_23_P73114	0.03639642	down	-2.379509	PROS1	Homo sapiens protein S (alpha) (PROS1), mRNA [NM_000313]
A_24_P381604	0.004748902	down	-1.8375516	ITM2B	Homo sapiens integral membrane protein 2B (ITM2B), mRNA [NM_021999]
A_33_P3282489	0.004181315	down	-2.1059306	GCNT1	Homo sapiens glucosaminyl (N-acetyl) transferase 1, core 2 (GCNT1), transcript variant 1, mRNA [NM_001097634]
A_23_P30122	0.014566761	down	-2.0826333	IL2	Homo sapiens interleukin 2 (IL2), mRNA [NM_000586]
A_33_P3263277	0.012571266	down	-1.6443335	EEF1A1	Human elongation factor 1-alpha (EF1A) mRNA, partial cds. [M29548]
A_32_P313405	0.04550742	down	-3.323531	LAMA1	Homo sapiens laminin, alpha 1 (LAMA1), mRNA [NM_005559]
A_23_P144348	0.025006708	down	-1.6788411	SLIT2	Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant 1, mRNA [NM_004787]
A_24_P245298	0.004444458	down	-1.9409235	TNFSF12	Homo sapiens tumor necrosis factor (ligand) superfamily, member 12 (TNFSF12), transcript variant 1, mRNA [NM_003809]
A_23_P8961	5.10E-04	down	-2.4128914	IL7	Homo sapiens interleukin 7 (IL7), transcript variant 1, mRNA [NM_000880]
A_33_P3397525	0.030981716	down	-1.7912502	WNT4	Homo sapiens wingless-type MMTV integration site family, member 4 (WNT4), mRNA [NM_030761]
A_33_P3382177	0.017115137	down	-1.8615247	TIMP2	Homo sapiens TIMP metalloproteinase inhibitor 2 (TIMP2), mRNA [NM_003255]
A_23_P98382	0.01474834	down	-1.6084414	TIMM8B	Homo sapiens translocase of inner mitochondrial membrane 8 homolog B (yeast) (TIMM8B), transcript variant 1, mRNA [NM_012459]
A_24_P244706	0.02434364	down	-1.6297488	SSTR1	Homo sapiens somatostatin receptor 1 (SSTR1), mRNA [NM_001049]
A_23_P218858	0.002930635	down	-2.970404	ABI3BP	Homo sapiens ABI family, member 3 (NESH) binding protein (ABI3BP), mRNA [NM_015429]

A_33_P3212555	0.029141515	down	-1.623088	PROS1	Homo sapiens protein S (alpha) (PROS1), mRNA [NM_000313]
A_24_P334300	6.87E-04	down	-3.615217	FGF12	Homo sapiens fibroblast growth factor 12 (FGF12), transcript variant 2, mRNA [NM_004113]
A_33_P6517036	0.04687285	down	-1.6152365	CDH13	cadherin 13 [Source:HGNC Symbol;Acc:HGNC:1753] [ENST00000567109]
A_33_P3251552	0.04017219	down	-2.0559099	RSPO4	Homo sapiens R-spondin 4 (RSPO4), transcript variant 1, mRNA [NM_001029871]
A_33_P3256778	0.012414722	down	-2.3242157	CNTF	Homo sapiens ciliary neurotrophic factor (CNTF), mRNA [NM_000614]
A_23_P256473	0.02794775	down	-2.2519164	SEMA3C	Homo sapiens sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C (SEMA3C), mRNA [NM_006379]
A_24_P257416	0.03703572	down	-3.5145414	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_33_P3256347	0.027520727	down	-1.5385352	TIMM8B	Homo sapiens translocase of inner mitochondrial membrane 8 homolog B (yeast) (TIMM8B), transcript variant 1, mRNA [NM_012459]
A_23_P206396	0.029042121	down	-1.5468429	CKLF	Homo sapiens chemokine-like factor (CKLF), transcript variant 5, mRNA [NM_001040138]
A_24_P295806	0.016435107	down	-1.928913	CHID1	Homo sapiens chitinase domain containing 1 (CHID1), transcript variant 3, mRNA [NM_023947]
A_23_P148297	0.007080677	down	-1.665376	SH3BGRL	Homo sapiens SH3 domain binding glutamate-rich protein like (SH3BGRL), mRNA [NM_003022]
A_23_P36985	0.010447358	down	-2.5990827	PCDH8	Homo sapiens protocadherin 8 (PCDH8), transcript variant 1, mRNA [NM_002590]
A_32_P15320	0.03380439	down	-1.5039843	EEF1A1	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA [NM_001402]
A_23_P202501	0.00362879	down	-1.8388847	RNLS	Homo sapiens renalase, FAD-dependent amine oxidase (RNLS), transcript variant 1, mRNA [NM_001031709]
A_32_P515088	0.017605368	down	-1.5223204	KDSR	Homo sapiens 3-ketodihydrosphingosine reductase (KDSR), mRNA [NM_002035]
A_23_P135769	0.03930555	down	-1.8032029	ACTB	Homo sapiens actin, beta (ACTB), mRNA [NM_001101]
A_23_P72117	7.42E-04	down	-2.9752638	SMPDL3A	Homo sapiens sphingomyelin phosphodiesterase, acid-like 3A (SMPDL3A), transcript variant 1, mRNA [NM_006714]
A_24_P55295	0.004043915	down	-2.1627452	GJA1	Homo sapiens gap junction protein, alpha 1, 43kDa (GJA1), mRNA [NM_000165]
A_33_P3272580	0.037699625	down	-1.5141863	FUCA2	Homo sapiens fucosidase, alpha-L- 2, plasma (FUCA2), mRNA [NM_032020]
A_23_P47292	0.023319086	down	-1.7285758	MMP20	Homo sapiens matrix metalloproteinase 20 (MMP20), mRNA [NM_004771]
A_23_P62659	0.002188017	down	-1.7937051	PPT1	Homo sapiens palmitoyl-protein thioesterase 1 (PPT1), transcript variant 1, mRNA [NM_000310]
A_33_P3382856	0.01448115	down	-1.6855268	DCN	Homo sapiens decorin (DCN), transcript variant E, mRNA [NM_133507]
A_24_P337239	0.046585385	down	-1.6413264	FGF5	Homo sapiens fibroblast growth factor 5 (FGF5), transcript variant 1, mRNA [NM_004464]
A_24_P205994	0.04735557	down	-1.6505252	EPGN	Homo sapiens epithelial mitogen (EPGN), transcript variant 1, mRNA [NM_001270989]
A_24_P763243	0.007927178	down	-1.5471231	EEF1A1	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA [NM_001402]
A_23_P111583	0.005921412	down	-1.7987943	CD36	Homo sapiens CD36 molecule (thrombospondin receptor) (CD36), transcript variant 2, mRNA [NM_001001547]
A_33_P3422777	0.04453521	down	-1.6527406	PRH2	Homo sapiens proline-rich protein HaeIII subfamily 2 (PRH2), transcript variant 1, mRNA [NM_005042]
A_23_P208208	0.013507194	down	-1.689133	ZNF649	Homo sapiens zinc finger protein 649 (ZNF649), mRNA [NM_023074]
A_23_P12357	0.011540561	down	-2.285458	CRB1	Homo sapiens crumbs family member 1, photoreceptor morphogenesis associated (CRB1), transcript variant 1, mRNA [NM_201253]
A_33_P3368855	0.029727371	down	-1.5539179	GPC5	Homo sapiens glypican 5 (GPC5), mRNA [NM_004466]

Table S3. Interactions output of String network analysis of secreted factors (Suppl.Table S2)

#node1	node2	node1_string_id	node2_string_id	neighborhood_on_chromosome	gene_fusion	phylogenetic_cooccurrence	homology	coexpression	experimentally_determined_interact	database_annotated	automated_textmining	combined_score
ADAM10	FUCA2	9606.ENSP00000260408	9606.ENSP00000002165	0	0	0	0	0.061	0	0.9	0	0.902
ADAM10	PCSK9	9606.ENSP00000260408	9606.ENSP00000303208	0	0	0	0	0.062	0	0.9	0.057	0.903
ADAM10	CD59	9606.ENSP00000260408	9606.ENSP00000379191	0	0	0	0	0	0	0.9	0.104	0.906
ADAM10	CD36	9606.ENSP00000260408	9606.ENSP00000399421	0	0	0	0	0	0	0.9	0.103	0.906
B2M	IL2	9606.ENSP00000452780	9606.ENSP00000226730	0	0	0	0	0	0	0.9	0.588	0.957
B2M	LNPEP	9606.ENSP00000452780	9606.ENSP00000231368	0	0	0	0	0.063	0	0.9	0.097	0.908
B2M	TIMP2	9606.ENSP00000452780	9606.ENSP00000262768	0	0	0	0	0.062	0	0.9	0.214	0.919
B2M	CSTB	9606.ENSP00000452780	9606.ENSP00000291568	0	0	0	0	0	0	0.9	0.438	0.941
B2M	CALR	9606.ENSP00000452780	9606.ENSP00000320866	0	0	0	0	0	0	0.9	0.441	0.941
B2M	TFRC	9606.ENSP00000452780	9606.ENSP00000353224	0	0	0	0	0.061	0	0.72	0.713	0.917
BDNF	FGF2	9606.ENSP00000414303	9606.ENSP00000264498	0	0	0	0	0.11	0	0	0.906	0.912
CD36	CD59	9606.ENSP00000399421	9606.ENSP00000379191	0	0	0	0	0	0	0.9	0.119	0.908
CD59	CTSC	9606.ENSP00000379191	9606.ENSP00000227266	0	0	0	0	0	0	0.9	0.079	0.903
CKLF	CMTM7	9606.ENSP00000264001	9606.ENSP00000335605	0	0	0	0	0.06	0	0	0.902	0.903
COL15A1	MMP20	9606.ENSP00000364140	9606.ENSP00000260228	0	0	0	0	0.061	0	0.9	0.042	0.902
COL15A1	COL6A3	9606.ENSP00000364140	9606.ENSP00000295550	0	0	0	0.558	0.293	0	0.9	0.549	0.943
COL15A1	CTSL	9606.ENSP00000364140	9606.ENSP00000345344	0	0	0	0	0.061	0	0.9	0	0.902
COL15A1	SERPINH1	9606.ENSP00000364140	9606.ENSP00000434412	0	0	0	0	0.098	0	0.9	0.188	0.92
COL6A3	SERPINH1	9606.ENSP00000295550	9606.ENSP00000434412	0	0	0	0	0.161	0	0.9	0.266	0.933
CSTB	TIMP2	9606.ENSP00000291568	9606.ENSP00000262768	0	0	0	0	0.061	0	0.9	0.138	0.912
CTSC	FUCA2	9606.ENSP00000227266	9606.ENSP00000002165	0	0	0	0	0.084	0	0.9	0	0.904
CTSC	SDCBP	9606.ENSP00000227266	9606.ENSP00000260130	0	0	0	0	0.062	0	0.9	0.06	0.904
CXCL12	SSTR1	9606.ENSP00000379140	9606.ENSP00000267377	0	0	0	0	0.076	0	0.9	0.116	0.911
CXCL12	CXCL16	9606.ENSP00000379140	9606.ENSP00000293778	0	0	0	0	0	0	0.9	0.641	0.962
CXCL12	CXCL5	9606.ENSP00000379140	9606.ENSP00000296027	0	0	0	0	0	0	0.9	0.67	0.965
CXCL12	SLIT2	9606.ENSP00000379140	9606.ENSP00000422591	0	0	0	0	0.12	0	0.9	0.412	0.943
CXCL12	CXCL2	9606.ENSP00000379140	9606.ENSP00000427279	0	0	0	0	0	0	0.9	0.668	0.965
CXCL16	SSTR1	9606.ENSP00000293778	9606.ENSP00000267377	0	0	0	0	0	0	0.9	0	0.9
CXCL16	CXCL2	9606.ENSP00000293778	9606.ENSP00000427279	0	0	0	0	0.086	0	0.9	0.543	0.954
CXCL16	CXCL5	9606.ENSP00000293778	9606.ENSP00000296027	0	0	0	0	0.061	0	0.9	0.569	0.955
CXCL2	SSTR1	9606.ENSP00000427279	9606.ENSP00000267377	0	0	0	0	0	0	0.9	0	0.9
CXCL2	CXCL5	9606.ENSP00000427279	9606.ENSP00000296027	0	0	0	0.898	0.319	0	0.9	0.833	0.935
CXCL5	SSTR1	9606.ENSP00000296027	9606.ENSP00000267377	0	0	0	0	0	0	0.9	0	0.9
DCN	GPC5	9606.ENSP00000052754	9606.ENSP00000366267	0	0	0	0	0.061	0	0.9	0.44	0.942
DCN	GPC6	9606.ENSP00000052754	9606.ENSP00000366246	0	0	0	0	0.089	0	0.9	0.443	0.944
EFNB1	SDCBP	9606.ENSP00000204961	9606.ENSP00000260130	0	0	0	0	0	0	0.9	0.554	0.953
FUCA2	PCSK9	9606.ENSP00000002165	9606.ENSP00000303208	0	0	0	0	0	0	0.9	0	0.9
FUCA2	SDCBP	9606.ENSP00000002165	9606.ENSP00000260130	0	0	0	0	0.061	0	0.9	0	0.902
GPC5	GPC6	9606.ENSP00000366267	9606.ENSP00000366246	0	0	0	0.73	0.055	0	0.9	0.8	0.922
IL2	IL7	9606.ENSP00000226730	9606.ENSP00000236851	0	0	0	0	0	0	0	0.92	0.92
RSPO3	RSPO4	9606.ENSP00000349131	9606.ENSP00000217260	0	0	0	0.877	0	0	0.9	0.778	0.909
TCTN1	TTBK2	9606.ENSP00000380779	9606.ENSP00000267890	0	0	0	0	0	0	0.9	0.295	0.926

Table S4. Reactome pathway enrichment analysis output of String network analysis of secreted factors (Suppl.Table S2)

#term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (IDs)	matching proteins in your network (labels)
HSA-1474244	Extracellular matrix organization	14	298	0.92	1.14E-06	9606.ENSP00000052754,9606.ENSP00000260228,9606.ENSP00000260408,9606.ENSP00000262768,9606.ENSP00000264094,9606.ENSP00000264498,9606.ENSP00000271651,9606.ENSP00000286657,9606.ENSP00000295550,9606.ENSP00000345344,9606.ENSP00000364140,9606.ENSP0000374309,9606.ENSP00000419446,9606.ENSP00000434412	DCN,MMP20,ADAM10,TIMP2,LOXL3,FGF2,CTSK,ADAMTS3,COL6A3,CTSL,COL15A1,LAMA1,ADAM9,SERPINH1
HSA-1442490	Collagen degradation	7	64	1.29	3.37E-05	9606.ENSP00000260228,9606.ENSP00000260408,9606.ENSP00000271651,9606.ENSP00000295550,9606.ENSP00000345344,9606.ENSP00000364140,9606.ENSP00000419446	MMP20,ADAM10,CTSK,COL6A3,CTSL,COL15A1,ADAM9
HSA-1474228	Degradation of the extracellular matrix	9	139	1.06	3.37E-05	9606.ENSP00000052754,9606.ENSP00000260228,9606.ENSP00000260408,9606.ENSP00000262768,9606.ENSP00000271651,9606.ENSP00000295550,9606.ENSP00000345344,9606.ENSP00000364140,9606.ENSP00000419446	DCN,MMP20,ADAM10,TIMP2,CTSK,COL6A3,CTSL,COL15A1,ADAM9
HSA-1474290	Collagen formation	7	89	1.14	0.00013	9606.ENSP00000260228,9606.ENSP00000260409,9606.ENSP00000286657,9606.ENSP00000295550,9606.ENSP00000345344,9606.ENSP00000364140,9606.ENSP00000434412	MMP20,LOXL3,ADAMTS3,COL6A3,CTSL,COL15A1,SERPINH1
HSA-168256	Immune System	26	1925	0.38	0.0022	9606.ENSP00000002165,9606.ENSP00000216117,9606.ENSP00000226730,9606.ENSP00000227266,9606.ENSP00000231368,9606.ENSP00000260130,9606.ENSP00000260408,9606.ENSP00000262768,9606.ENSP00000263851,9606.ENSP00000264498,9606.ENSP00000271651,9606.ENSP00000293825,9606.ENSP00000320866,9606.ENSP00000339063,9606.ENSP00000339804,9606.ENSP00000345344,9606.ENSP00000349960,9606.ENSP00000355370,9606.ENSP00000377456,9606.ENSP00000377783,9606.ENSP00000379191,9606.ENSP00000397082,9606.ENSP00000399421,9606.ENSP00000427279,9606.ENSP0000452780	FUCA2,HMOX1,IL2,CTSC,LNPEP,SDCBP,ADAM10,TIMP2,IL7,FGF2,CTSK,CSTB,TNFSF12,CALR,EEF1A1,TSLP,CTSL,ACTB,CNTF,REG3A,PROS1,CD59,SFTPA1,CD36,CXCL2,B2M
HSA-2022090	Assembly of collagen fibrils and other multimeric structures	5	60	1.17	0.0025	9606.ENSP00000260228,9606.ENSP00000260409,9606.ENSP00000295550,9606.ENSP00000345344,9606.ENSP00000364140	MMP20,LOXL3,COL6A3,CTSL,COL15A1
HSA-1236977	Endosomal/Vacuolar pathway	3	11	1.68	0.004	9606.ENSP00000231368,9606.ENSP00000345344,9606.ENSP00000452780	LNPEP,CTSL,B2M
HSA-168249	Innate Immune System	16	1012	0.45	0.0119	9606.ENSP00000002165,9606.ENSP00000227266,9606.ENSP00000260130,9606.ENSP00000260408,9606.ENSP00000262768,9606.ENSP00000271651,9606.ENSP00000291568,9606.ENSP00000339063,9606.ENSP00000345344,9606.ENSP00000349960,9606.ENSP00000377456,9606.ENSP00000377783,9606.ENSP00000379191,9606.ENSP00000397082,9606.ENSP00000399421,9606.ENSP00000452780	FUCA2,CTSC,SDCBP,ADAM10,TIMP2,CTSK,CSTB,EEF1A1,CTSL,ACTB,REG3A,PROS1,CD59,SFTPA1,CD36,B2M
HSA-380108	Chemokine receptors bind chemokines	4	48	1.17	0.0119	9606.ENSP00000293778,9606.ENSP00000296027,9606.ENSP00000379140,9606.ENSP00000427279	CXCL16,CXCL5,CXCL12,CXCL2
HSA-1236975	Antigen processing-Cross presentation	5	96	0.96	0.0122	9606.ENSP00000231368,9606.ENSP00000320866,9606.ENSP00000345344,9606.ENSP00000399421,9606.ENSP00000452780	LNPEP,CALR,CTSL,CD36,B2M
HSA-3560783	Defective B4GALT7 causes EDS, progeroid type	3	20	1.42	0.0122	9606.ENSP00000052754,9606.ENSP00000366246,9606.ENSP00000366267	DCN,GPC6,GPC5
HSA-3560801	Defective B3GAT3 causes JDSSDHD	3	20	1.42	0.0122	9606.ENSP00000052754,9606.ENSP00000366246,9606.ENSP00000366267	DCN,GPC6,GPC5
HSA-4420332	Defective B3GALT6 causes EDSP2 and SEMDJL1	3	20	1.42	0.0122	9606.ENSP00000052754,9606.ENSP00000366246,9606.ENSP00000366267	DCN,GPC6,GPC5
HSA-6798695	Neutrophil degranulation	10	471	0.57	0.0128	9606.ENSP00000002165,9606.ENSP00000227266,9606.ENSP00000260130,9606.ENSP00000260408,9606.ENSP00000262768,9606.ENSP00000291568,9606.ENSP00000339063,9606.ENSP00000379191,9606.ENSP00000399421,9606.ENSP00000452780	FUCA2,CTSC,SDCBP,ADAM10,TIMP2,CSTB,EEF1A1,CD59,CD36,B2M
HSA-1971475	A tetrasaccharide linker sequence is required for GAG synthesis	3	26	1.31	0.0174	9606.ENSP00000052754,9606.ENSP00000366246,9606.ENSP00000366267	DCN,GPC6,GPC5
HSA-1650814	Collagen biosynthesis and modifying enzymes	4	67	1.02	0.0198	9606.ENSP00000286657,9606.ENSP00000295550,9606.ENSP00000364140,9606.ENSP00000434412	ADAMTS3,COL6A3,COL15A1,SERPINH1
HSA-375276	Peptide ligand-binding receptors	6	183	0.76	0.0198	9606.ENSP00000267377,9606.ENSP00000293778,9606.ENSP00000296027,9606.ENSP00000378089,9606.ENSP00000379140,9606.ENSP00000427279	SSTR1,CXCL16,CXCL5,NMB,CXCL12,CXCL2
HSA-977225	Amyloid fiber formation	4	78	0.96	0.0302	9606.ENSP00000240652,9606.ENSP00000260408,9606.ENSP00000367828,9606.ENSP00000452780	IAPP,ADAM10,ITM2B,B2M
HSA-8939242	RUNX1 regulates transcription of genes involved in differentiation of keratinocytes	2	8	1.64	0.033	9606.ENSP00000271651,9606.ENSP00000345344	CTSK,CTSL
HSA-2682334	EPH-Ephrin signaling	4	91	0.89	0.0446	9606.ENSP00000204961,9606.ENSP00000260130,9606.ENSP00000260408,9606.ENSP00000349960	EFNB1,SDCBP,ADAM10,ACTB
HSA-196025	Formation of annular gap junctions	2	11	1.51	0.0488	9606.ENSP00000282561,9606.ENSP00000349960	GJA1,ACTB

**Table S5. Gene expression changes of string output genes from Fig. 2D in AA-AIT versus HC**

ProbeName	p ([AA-] Vs [HC])	Regulation ([AA-] Vs [HC])	FC ([AA-] Vs [HC])	GeneSymbol	Description
A_23_P127891	0.01149975	down	-1.8091713	BDNF	Homo sapiens brain-derived neurotrophic factor (BDNF), transcript variant 1, mRNA [NM_170735]
A_23_P154894	0.04197503	down	-2.02658	CSTB	Homo sapiens cystatin B (stefin B) (CSTB), mRNA [NM_000100]
A_23_P156061	0.014953146	down	-1.7880483	LNPEP	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), transcript variant 1, mRNA [NM_005575]
A_23_P256413	0.014506795	down	-1.546428	CMTM7	Homo sapiens CKLF-like MARVEL transmembrane domain containing 7 (CMTM7), transcript variant 1, mRNA [NM_138410]
A_23_P37441	0.006178621	down	-1.6903744	B2M	Homo sapiens beta-2-microglobulin (B2M), mRNA [NM_004048]
A_33_P3379886	0.031061854	down	-1.6620039	FGF2	Homo sapiens fibroblast growth factor 2 (basic) (FGF2), mRNA [NM_002006]
A_23_P212617	0.035766084	down	-3.1347427	TFRC	Homo sapiens transferrin receptor (TFRC), transcript variant 1, mRNA [NM_003234]
A_23_P1552	0.03114783	down	-1.9359329	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_33_P3269203	0.009001244	down	-2.067726	SERPINH1	Homo sapiens serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) (SERPINH1), transcript variant 1, mRNA [NM_001207014]
A_33_P3292854	0.04606215	down	-1.5553663	CALR	Homo sapiens calreticulin (CALR), mRNA [NM_004343]
A_33_P3280385	0.036897637	down	-1.6241232	COL6A3	Homo sapiens collagen, type VI, alpha 3 (COL6A3), transcript variant 3, mRNA [NM_057165]
A_23_P315364	0.048094835	down	-6.3066316	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_23_P94533	0.04181123	down	-3.1553388	CTSL	Homo sapiens cathepsin L (CTSL), transcript variant 1, mRNA [NM_001912]
A_24_P784765	0.004449119	down	-2.5754733	CD59	Homo sapiens CD59 molecule, complement regulatory protein (CD59), transcript variant 1, mRNA [NM_203330]
A_32_P97169	0.021822024	down	-1.6407976	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]
A_24_P412156	0.042167045	down	-1.6281822	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 2, mRNA [NM_000609]
A_23_P112554	0.012973307	down	-1.9025874	COL15A1	Homo sapiens collagen, type XV, alpha 1 (COL15A1), mRNA [NM_001855]
A_24_P365807	0.023668826	down	-1.8524894	EFNB1	Homo sapiens ephrin-B1 (EFNB1), mRNA [NM_004429]
A_23_P48886	0.006874017	down	-1.6188662	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P111402	0.039168965	down	-3.5393105	RSPO3	Homo sapiens R-spondin 3 (RSPO3), mRNA [NM_032784]
A_23_P157580	0.004990098	down	-1.8704803	SDCBP	Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant 1, mRNA [NM_005625]
A_32_P142440	0.03160898	down	-4.4842424	PCSK9	Homo sapiens proprotein convertase subtilisin/kexin type 9 (PCSK9), transcript variant 1, mRNA [NM_174936]

A_23_P30122	0.014566761	down	-2.0826333	IL2	Homo sapiens interleukin 2 (IL2), mRNA [NM_000586]
A_23_P144348	0.025006708	down	-1.6788411	SLIT2	Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant 1, mRNA [NM_004787]
A_23_P8961	5.10E-04	down	-2.4128914	IL7	Homo sapiens interleukin 7 (IL7), transcript variant 1, mRNA [NM_000880]
A_33_P3382177	0.017115137	down	-1.8615247	TIMP2	Homo sapiens TIMP metalloproteinase inhibitor 2 (TIMP2), mRNA [NM_003255]
A_33_P3251552	0.04017219	down	-2.0559099	RSPO4	Homo sapiens R-spondin 4 (RSPO4), transcript variant 1, mRNA [NM_001029871]
A_24_P257416	0.03703572	down	-3.5145414	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_23_P206396	0.029042121	down	-1.5468429	CKLF	Homo sapiens chemokine-like factor (CKLF), transcript variant 5, mRNA [NM_001040138]
A_33_P3272580	0.037699625	down	-1.5141863	FUCA2	Homo sapiens fucosidase, alpha-L- 2, plasma (FUCA2), mRNA [NM_032020]
A_23_P47292	0.023319086	down	-1.7285758	MMP20	Homo sapiens matrix metalloproteinase 20 (MMP20), mRNA [NM_004771]
A_33_P3382856	0.01448115	down	-1.6855268	DCN	Homo sapiens decorin (DCN), transcript variant E, mRNA [NM_133507]
A_23_P111583	0.005921412	down	-1.7987943	CD36	Homo sapiens CD36 molecule (thrombospondin receptor) (CD36), transcript variant 2, mRNA [NM_001001547]
A_33_P3368855	0.029727371	down	-1.5539179	GPC5	Homo sapiens glypican 5 (GPC5), mRNA [NM_004466]

**Table S6. Gene expression changes for upregulated genes from cut set in Fig. 3A of AR-AIT versus HC**

systematic_name	p ([AA - AIT] Vs [HC])	Regulation ([AA - AIT] Vs [HC])	FC ([AA - AIT] Vs [HC])	control_type	start	chr	stop	active_sequence
hsa-miR-141-3p	0.04026966	up	5.4070354	0	7073324	chr12	7073339	CCATCTTTACCAGACAG
hsa-miR-210-3p	0.04435761	up	5.5541644	0	568175	chr11	568161	TCAGCCGCTGTCACAC
hsa-miR-132-3p	0.029189989	up	6.8099184	0	1953281	chr17	1953267	CGACCATGGCTGTAGA
hsa-miR-21-3p	0.025903609	up	5.2083707	0	57918679	chr17	57918692	ACAGCCCATCGACTG
hsa-miR-564	0.029540189	up	5.6603575	0				GCCTGCTGACACCGT
hsa-miR-8089	0.020860732	up	5.952117	0				CTGCCCAATCCCC
hsa-let-7e-5p	0.017494433	up	6.2108426	0	52196050	chr19	52196067	AACATATACAACCTCCTACC
hsa-miR-362-5p	0.044741288	up	5.5566535	0	49660324	chrX	49660339	ACTCACACCTAGGTTCC
hsa-miR-4646-5p	0.03964684	up	5.0251675	0				TCCCTCAGCTCCTCT
hsa-miR-125a-5p	0.012394682	up	11.810931	0				TCACAGGTTAAAGGGTCTC
hsa-miR-222-3p	0.01847131	up	8.187924	0	45606509	chrX	45606498	ACCCAGTAGCCAG
hsa-miR-424-5p	9.31E-04	up	28.406324	0	133680675	chrX	133680655	TTCAAAACATGAATTGCTGCTG
hsa-miR-451a	0.03072449	up	21.251144	0	27188424	chr17	27188404	AACTCAGTAATGGTAACGGTTT
hsa-miR-6768-5p	0.002414774	up	10.242666	0				CAGGGCCCCGC
hsa-miR-7109-5p	0.007003281	up	7.911158	0				AGCAGGGTCTCCTCC
hsa-miR-664b-5p	0.01225342	up	9.818432	0	153996879	chrX	153996894	TACCCAATCATCTCCCT
hsa-miR-6801-3p	0.008235127	up	7.94094	0				GGCCAGTGAGTGGC
hsa-miR-6865-5p	0.00869979	up	7.373112	0				TGAAGTCCCTCCTCTG
hsa-miR-211-3p	0.001573525	up	11.126227	0				GCACCCCTTTGCTG
hsa-miR-3605-5p	0.008572692	up	7.9654956	0				GGCTTCCTTGCTATCC
hsa-miR-4417	0.004446345	up	9.025666	0				CCCTCCGGGAAGC
hsa-miR-10b-3p	0.005821119	up	9.185711	0	177015100	chr2	177015117	ATTCCCCTAGAATCGAATC
hsa-miR-4733-5p	0.04363677	up	5.2618227	0				CACCGGGTCTAGCA
hsa-miR-3911	0.014088881	up	7.106937	0				TGCCTCCTCCAGGA
hsa-miR-429	0.025509337	up	6.7868247	0				ACGGTTTTACCAGACAGTA
hsa-miR-192-5p	0.013092756	up	10.644565	0	64658652	chr11	64658635	GGCTGTCAATTCATAGGTC
hsa-miR-6753-3p	0.004727995	up	8.4662	0				GTGCCAGGGCAGA
hsa-miR-7-1-3p	0.017807836	up	8.289317	0	86584749	chr9	86584732	TATGGCAGACTGTGATTTG
hsa-miR-3907	0.004889822	up	8.3752575	0				TGTGAGCCAGCCTGG
hsa-miR-557	0.007739896	up	8.330387	0				AGACAAGGCCACCCG
hsa-miR-4768-3p	0.03322499	up	5.383358	0				ATTCTCTCTGGATCTCCT
hsa-miR-6810-3p	0.024915043	up	5.7786007	0				CTGGGGAACAAGGG
hsa-miR-1296-5p	0.024346719	up	5.8261676	0	65132753	chr10	65132740	GGAGATGGAGCCAGG
hsa-miR-4708-5p	0.024786044	up	5.789224	0				AAGGAGCAAGGCGG
hsa-miR-6787-3p	0.019617952	up	6.3223376	0				CTGGAGAGGGCAGC
hsa-miR-6837-5p	0.03024121	up	5.572989	0				ACATTCCCTGCTGGC
hsa-miR-17-3p	0.024748752	up	5.792313	0	92002916	chr13	92002930	CTACAAGTGCCCTTCAC
hsa-miR-3613-3p	0.019138321	up	6.386405	0				GAAGGGTTGGGCTTT
hsa-miR-301a-3p	0.025165152	up	5.7582808	0	54583351	chr17	54583331	GCTTTGACAATACTATTGCAC
hsa-miR-4513	0.025107995	up	5.9974537	0				ATGGGCCTCCAGCC
hsa-miR-6801-5p	0.025442135	up	5.964648	0				TCATTTCTGCTGCCT
hsa-miR-3928-5p	0.02757405	up	5.579358	0				GCAGGCGGAACCT
hsa-miR-663b	0.034670297	up	5.3019543	0				CCTCAGGCACGGC
hsa-miR-3687	0.021957304	up	6.359916	0				ACGTCGACGAACG
hsa-miR-6757-3p	0.021182938	up	6.134121	0				TGGGGATAGCAAGGC
hsa-miR-4312	0.021364475	up	6.114084	0				TGGGGACAGGAACAA
hsa-miR-6890-3p	0.02142203	up	6.1078024	0				CTGTGGGGCATAGGC
hsa-miR-3622b-3p	0.020486448	up	6.214276	0				CAGGCACGGGAGC
hsa-miR-519d-3p	0.020882001	up	6.168097	0	54216658	chr19	54216675	CACTCTAAAGGGAGGCACT
hsa-miR-16-2-3p	0.031075956	up	5.362068	0	160122586	chr3	160122606	TAAAGCAGCACAGTAATATTGG
hsa-miR-6736-5p	0.033522647	up	5.3660946	0				ACCACAGATGCCCTC
hsa-miR-4710	0.03450159	up	5.3111515	0				AACCACCTGCCCTCA
hsa-miR-6804-5p	0.03443327	up	5.314897	0				CGTCACCTGCTGAC
hsa-miR-1273g-5p	0.033891357	up	5.345078	0	53406017	chr1	53406032	ACTTACTGCAAGCTCAA
hsa-miR-1207-3p	0.034112368	up	5.3326693	0				GAAATGAGGCCACGC
hsa-miR-204-3p	0.03422679	up	5.3262997	0				ACGTCCCTTTGCCTT
hsa-miR-3659	0.03199917	up	5.9521465	0				TGCCCTCGTAGACAAC

hsa-miR-6866-3p	0.02368567	up	5.884106	0				CTAGAGGACAGATAAAGGG
hsa-miR-5584-3p	0.024831297	up	5.785485	0				AATTGGGCAAAAGGGAAG
hsa-miR-371a-3p	0.025170181	up	5.7578773	0	54290974	chr19	54290992	ACACTCAAAGATGGCGGC
hsa-miR-4633-5p	0.02528625	up	5.748573	0				GAGGAGCTAGCCAGG
hsa-miR-6784-3p	0.025338562	up	5.7444057	0				CTGGGGCAGAGTTGG
hsa-miR-1273h-5p	0.028459268	up	5.7035093	0				ACTGCAGCCTTGACC
hsa-let-7e-3p	0.025748072	up	5.712295	0	122017300	chr11	122017286	GGAAAGCTAGGAGGC
hsa-miR-6878-3p	0.025726663	up	5.713951	0				CTAGGAGAAAGAAGAGGC
hsa-miR-605-5p	0.02561026	up	5.7229986	0	53059355	chr10	53059370	AGGAGAAGGCACCATGG
hsa-miR-634	0.02549446	up	5.7320724	0				GTCCAAAGTTGGGGTGCT
hsa-miR-6786-3p	0.02604653	up	5.689456	0				AGGCAGAATCAGAAGGG
hsa-miR-892b	0.026061315	up	5.6883373	0				TCTACCCAGAAAGGAGCCA
hsa-miR-6867-3p	0.026316267	up	5.6692076	0				CTAGTGGGTAAAGAGGG
hsa-miR-6887-3p	0.026260106	up	5.6733932	0				CTAGGAGGAAAGTGAG
hsa-miR-6781-5p	0.032347344	up	5.435881	0				ACGCCCTTGACCTC
hsa-miR-1273d	0.030902576	up	5.528112	0				ACTGCAGCCTCAACC
hsa-miR-1469	0.031095482	up	5.5153494	0				GGAGCCCGCGC
hsa-miR-3180-3p	0.026778009	up	5.635375	0				GGCCTCCGGAAGC
hsa-miR-5708	0.026891345	up	5.6272244	0				GGTCAGGCACAGTCG
hsa-miR-6741-3p	0.027606577	up	5.5771275	0				CTAGGGTGAGGGAGA
hsa-miR-6736-3p	0.02771201	up	5.56993	0				CTGTGGGTAGAGGGA
hsa-miR-6855-3p	0.027707815	up	5.5702157	0				CTGTGGGGTTGAAGG
hsa-miR-4636	0.030333944	up	5.566588	0				CTAAAGGCTTTGAACACG
hsa-miR-6869-3p	0.027758941	up	5.5667405	0				GCTGAGCCGATGCG
hsa-miR-129-1-3p	0.027295178	up	5.5986624	0	127847977	chr7	127847994	ATACTTTTGGGGTAAGGG
hsa-miR-3622a-3p	0.027277708	up	5.5998836	0				ACAGGCATGGGAGGT
hsa-miR-1296-3p	0.027370121	up	5.593441	0				GGTTAGGGTCGAAGC
hsa-miR-215-5p	0.027438268	up	5.5887136	0	220291241	chr1	220291222	GTCTGTCAATTCATAGGTCAT
hsa-miR-1343-3p	0.02720755	up	5.604798	0	34963445	chr11	34963456	GCGAGAGTGCGGG
hsa-miR-6507-3p	0.025663082	up	5.7188845	0				GGGAAAAATAGGAAGGAC
hsa-miR-6872-3p	0.023386044	up	5.911361	0				GACCGCGGCAGG
hsa-miR-6729-3p	0.026163172	up	5.680657	0				CTGAGAGGGCGAGG
hsa-miR-3192-3p	0.024071747	up	5.849913	0				GAGCTGAGAGGGCG
hsa-miR-718	0.02441564	up	5.8202915	0				CGACGCCCGGC
hsa-miR-485-3p	0.02056052	up	6.205491	0				AGAGAGGAGAGCCGTGT
hsa-miR-6792-3p	0.019864893	up	6.2906194	0				ATGAGCAGGGGCTGT
hsa-miR-8073	0.034109227	up	5.3328457	0				ACGACGCTCCCTGC
hsa-miR-1910-3p	0.03329328	up	5.379374	0				TGTCATCCTGCTTCTGC
hsa-miR-7157-5p	0.034359526	up	5.318957	0				TCTCTGGTGCCAATGA
hsa-miR-508-5p	0.04978184	up	4.989157	0				CATGAGTGACGCCCTC
hsa-miR-1236-3p	0.025052283	up	5.767406	0	31924717	chr6	31924703	CTGGAGAGACAAGGGG
hsa-miR-1199-5p	0.030637885	up	5.5458584	0				CTGCGCGGCCCC
hsa-miR-3713	0.034262784	up	5.3243036	0				ACCATCCCCAAACGG
hsa-miR-582-5p	0.014388667	up	7.299523	0	59035226	chr5	59035206	AGTAAGTGGTTGAACAACGTGA
hsa-miR-628-5p	0.009559458	up	7.571145	0				CCTCTAGTAAATATGTCAGCA
hsa-miR-4697-3p	0.01914674	up	6.3852525	0				ACCAAGGGGCGAGGA
hsa-miR-1910-5p	0.020881062	up	6.168203	0	85775258	chr16	85775247	AGGCGGCAGGCAC
hsa-miR-3184-3p	0.020224737	up	6.2458344	0				TGAGGGGCAGAGAGC
hsa-miR-3132	0.033682533	up	5.356931	0				TCCTCTGAGCTCCTTC
hsa-miR-3163	0.030951709	up	5.524848	0				GTCTTACTGCCCTCATT
hsa-miR-4419b	0.03497397	up	5.285591	0				CCATCTTCCTTCAGCC
hsa-miR-4487	0.021004926	up	6.4940376	0				CTGCCCTTCAGCCA
hsa-miR-4701-3p	0.024448328	up	6.064968	0				ACACCACACCCATCAC
hsa-miR-1291	0.030640444	up	5.545686	0				ACTGTGTGCTTCAGTC
hsa-miR-4688	0.03413188	up	5.33158	0				CCCAGGTCCTCTGC
hsa-miR-6848-5p	0.034823235	up	5.293682	0				ACCATGGCCCCATCCC
hsa-miR-4279	0.03228263	up	5.439853	0				GAAGCCGGGAGGA
hsa-miR-6073	0.03278089	up	5.4096255	0				GTAGCTGATAACTACTACC
hsa-miR-665	0.029939683	up	5.4279385	0				AGGGGCCTCAGCCT
hsa-miR-769-3p	0.029296976	up	5.4670486	0				AACCAAGACCCCGGAG
hsa-miR-1226-3p	0.032221776	up	5.299489	0	47891106	chr3	47891119	CTAGGGAACACAGGG
hsa-miR-1224-3p	0.03597938	up	5.1168065	0				CTGAGGAGAGAGGAGG
hsa-miR-937-3p	0.034631744	up	5.1787515	0	144895198	chr8	144895184	GGCAGAGAGTCAGAGC
hsa-miR-202-3p	0.032945644	up	5.399808	0	135061097	chr10	135061084	TTCCCATGCCCTATA
hsa-miR-7515	0.034781132	up	5.2959538	0				GTCACCATCTTCCTT
hsa-let-7f-1-3p	0.026974866	up	5.6212573	0	96938694	chr9	96938712	GGGAAGGCAATAGATTGTAT
hsa-miR-6862-3p	0.025773847	up	5.7103057	0				AGAGGGCCAGAGAGC
hsa-miR-3131	0.036952086	up	5.537821	0				AAGGCCCTTCCACC
hsa-miR-4496	0.031001091	up	5.5215764	0				CCCTCTCAGCTTCAGT
hsa-miR-6759-3p	0.02544559	up	5.735925	0				CTGAGGGGAGAGGC

hsa-miR-6803-3p	0.025567042	up	5.726376	0				CTGAGGGTGAGAAGGC
hsa-miR-939-3p	0.02481979	up	5.786437	0				CTGGGGAGCAGAGG
hsa-miR-4780	0.02776996	up	5.565994	0				GCTAGGGATCAGGCT
hsa-miR-4740-3p	0.026036426	up	5.6902237	0				GCAGGGACGGATCC
hsa-miR-3714	0.02679087	up	5.6344476	0				ACAGGGGAGCACTGC
hsa-miR-7108-3p	0.026663104	up	5.6436996	0				CTGTGGGGAGACGG
hsa-miR-18b-3p	0.035898585	up	5.1204185	0	133304140	chrX	133304128	GCCAGAAGGGGCAT
hsa-miR-4776-5p	0.03449732	up	5.311385	0				AGCCCTTGCCATCCT
hsa-miR-509-5p	0.03466962	up	5.301991	0				TGATTGCCACTGTCTGC
hsa-miR-1233-5p	0.002620704	up	10.037859	0	34674294	chr15	34674283	TGCCGTGCCCTGG
hsa-miR-362-3p	0.002103268	up	10.970899	0				TGAATCCTTGAATAGGTGTG
hsa-miR-590-5p	0.008949685	up	12.158628	0	73243480	chr7	73243500	CTGCACCTTTATGAATAAGCTC
hsa-miR-1288-3p	0.015050294	up	6.759233	0	16185378	chr17	16185392	TCTCCAGATCAGGGCA
hsa-miR-4314	0.023481186	up	5.8579273	0				CTGTCCCATTTCCTCC
hsa-miR-542-5p	0.03966619	up	5.182103	0				TCTCGTGACATGATATCCC
hsa-miR-6840-3p	0.036996875	up	5.026758	0				CACCCCGCACAAAG
hsa-miR-422a	0.002204092	up	9.9606695	0				GCCTTCTGACCCTA
hsa-miR-550a-3-5p	0.016850205	up	6.212165	0				CTCTTACTCCCTCAGGC
hsa-miR-371a-5p	0.04809032	up	4.5468693	0	54290942	chr19	54290953	AGTGCCCCACAG
hsa-miR-7845-5p	0.017702166	up	6.1231923	0				CCACGACCCTCCC
hsa-miR-4508	0.005306048	up	8.233812	0				CGCGCGCCAG
hsa-miR-4463	0.002363124	up	10.404692	0				GGCCCCACCCCA
hsa-miR-6808-5p	0.008747818	up	7.6887803	0				CATGGTCCCACCTCC
hsa-miR-6824-5p	0.002730594	up	9.906647	0				TCCCTGGCCCAACC
hsa-miR-6880-5p	0.002840157	up	10.099302	0				GAGCTGCCCTCTTCC
hsa-miR-4651	0.004655303	up	8.510328	0				GCCCGACCTCACC
hsa-miR-629-3p	0.003309491	up	9.354801	0	68158846	chr15	68158831	GCTGGGCTTACGTTGG
hsa-miR-4689	0.005216814	up	8.360668	0				GGCCCCACCATG
hsa-miR-1185-2-3p	0.005149331	up	9.067846	0				ATGAGAGTCTCCCCCT
hsa-miR-3610	0.002978678	up	9.650203	0				CGGCGCCTCCTT
hsa-miR-2276-3p	0.023213517	up	6.202401	0	24736617	chr13	24736629	CCTCGCCTCTGACA
hsa-miR-6741-5p	0.020151287	up	6.2548413	0				CACGCTCCCACC
hsa-miR-4253	0.03348227	up	5.368422	0				ACCCCTGGACATGC
hsa-miR-4707-5p	0.028923629	up	5.6680403	0				CCAGAACCCGCC
hsa-miR-6753-5p	0.03137967	up	5.496809	0				TCAGCCCTGCTCTGC
hsa-miR-6765-5p	0.02821127	up	5.722906	0				ACACACCCTCCTGGC
hsa-miR-3620-3p	0.021356212	up	6.1149893	0	228285031	chr1	228285042	CTGGGTGCGGGAT
hsa-miR-3934-5p	0.022743568	up	6.2590227	0	33665937	chr6	33665950	CTGCCTCAGTTTCCA
hsa-miR-4732-5p	0.023999415	up	6.1131644	0				AGCTTCCTGCTCCCT
hsa-miR-6788-5p	0.03091071	up	5.5275693	0				TCTTACCACCTCTTCTCC
hsa-miR-6885-3p	0.018839622	up	6.428062	0				CTAGGGGAGCAGGAA
hsa-miR-3682-3p	0.02393786	up	6.1199226	0	54076328	chr2	54076313	CTACCTCCACCTGTATC
hsa-miR-4753-5p	0.023961227	up	6.1173525	0				TGTTCCTCTTCTTTGG
hsa-miR-4324	0.02419894	up	5.8388677	0				TTAAGGTTAGGGTCTCAGG
hsa-miR-4432	0.04528627	up	5.217047	0				AGGCATCTTGCAGAGTC
hsa-miR-921	0.002726196	up	9.931646	0				GAATCCTGGTCTGTCC
hsa-miR-212-3p	0.002254702	up	10.611317	0	1953655	chr17	1953641	GGCCGTGACTGGAGAC
hsa-miR-6772-5p	0.00259458	up	10.065361	0				CCTCAGCTCCAGCC
hsa-miR-3654	0.002825525	up	9.80736	0				TTCTCAGCTTGTCCA
hsa-miR-1909-5p	0.019691462	up	6.31281	0	1816193	chr19	1816182	CAGGGCAGGCACC
hsa-miR-200a-3p	0.022791453	up	5.9674244	0	1103301	chr1	1103317	ACATCGTTACCAGACAGT
hsa-miR-4535	0.019365817	up	6.355598	0				GTCCAGCCAGGTC
hsa-miR-135b-5p	0.01870949	up	6.446662	0	205417467	chr1	205417446	TCACATAGGAATGAAAGCCATA
hsa-miR-631	0.027183753	up	5.606469	0				GCTAGAGCTTGGGCC
hsa-miR-4665-5p	0.023324585	up	6.1893888	0				GCTCGCGCTCACG
hsa-miR-4695-3p	0.017981458	up	6.5561795	0				GAAGGAGGCAGCGG
hsa-miR-3940-3p	0.018666664	up	6.452842	0	6416498	chr19	6416485	AAGTGGGCTGGGATC
hsa-miR-6511b-3p	0.019086989	up	6.393465	0				TGCAGGCAGAAAGGGG
hsa-miR-1976	0.019367496	up	6.3553734	0				ACAGCAAGGAGGGCA
hsa-miR-7109-3p	0.018613983	up	6.4604926	0				CTGGAAGGGCAGGA
hsa-miR-1471	0.03247887	up	5.4278507	0				ACACCTGGCTCCACA
hsa-miR-3188	0.024831377	up	5.785479	0				CCCCGTATCCGCA
hsa-miR-6758-5p	0.033500336	up	5.3673787	0				ACATCACATCCTTCCCC
hsa-miR-5681b	0.019379744	up	6.3537393	0				ACTAGAAAGGGTGGCA
hsa-miR-6750-3p	0.026433354	up	5.660531	0				CTGGGAGCAGAGGG
hsa-miR-204-5p	0.02560207	up	5.723638	0	73424944	chr9	73424926	AGGCATAGGATGACAAAGGG
hsa-miR-2277-3p	0.025422635	up	5.7377377	0	92956480	chr5	92956469	GAGCCAGGCAGGG
hsa-miR-211-5p	0.018771801	up	6.4377213	0	31357281	chr15	31357262	AGGCGAAGGATGACAAAGGGA
hsa-miR-6511a-3p	0.01783087	up	6.580081	0				GCAGGCAGAAAGGGA
hsa-miR-4763-5p	0.018106226	up	6.5367146	0				AGCAGGAGGGCTGG

hsa-miR-3617-3p	0.019075016	up	6.3951178	0				AGAAAGGACATAGGGTGC
hsa-miR-6877-3p	0.019220505	up	6.3751874	0				GGAGGCCAAGGGC
hsa-miR-6782-3p	0.020829484	up	6.174126	0				TGCAGGATGGGGACA
hsa-miR-5587-5p	0.027091585	up	5.61297	0				AGTCCCGGAGGTGA
hsa-miR-487b-5p	0.019995453	up	6.274178	0				CGAACAGGACAGGG
hsa-miR-6825-3p	0.02255396	up	5.990597	0				TGCGGAGAAGGCCG
hsa-miR-6846-3p	0.022953497	up	5.951875	0				CTAGGGAGACAGAAGGG
hsa-miR-6894-3p	0.022707885	up	5.9755263	0				CTGGAGGAAGAGGGC
hsa-miR-615-3p	0.024521818	up	5.8112993	0				AAGAGGGAGACCCAGGC
hsa-miR-4481	0.024885789	up	5.781	0				AACCACCAGCCCAC
hsa-miR-5008-5p	0.025381306	up	5.9705534	0				CCACTGTGCCCCA
hsa-miR-345-5p	0.01885991	up	6.031634	0	100774222	chr14	100774234	GAGCCCTGGACTAG
hsa-miR-550a-5p	0.031030713	up	5.2011766	0	30329439	chr7	30329453	GGGCTCTTACTCCCT
hsa-miR-6789-5p	0.011886146	up	7.105271	0				CCCGCGCGCC
hsa-miR-130a-3p	0.013393003	up	11.306049	0	57408729	chr11	57408746	ATGCCCTTTTAACATTGCA
hsa-miR-370-3p	0.023863288	up	6.313655	0	101377532	chr14	101377544	ACCAGGTTCCACCC
hsa-miR-6722-3p	0.029033003	up	5.7346325	0				CCTGGCCCCACCC
hsa-miR-526b-5p	0.00597597	up	7.934882	0	54197666	chr19	54197682	ACAGAAAGTGCTTCCCTC
hsa-miR-3158-5p	0.006892068	up	8.270891	0				GAAGGGCTTCCCTCTC
hsa-miR-6516-3p	0.005934903	up	7.949409	0				TGTTTGCAATCATACATG
hsa-miR-191-5p	0.0280139	up	5.3363347	0	49058088	chr3	49058075	CAGCTGCTTTTGGGA
hsa-miR-501-5p	0.02983818	up	5.2614923	0	49661088	chrX	49661104	TCTACCCAGGGACAAAG
hsa-miR-130b-3p	0.007554296	up	15.6091385	0	22007648	chr22	22007664	ATGCCCTTTCATCATTGC
hsa-miR-363-3p	0.016679212	up	11.391617	0	133303478	chrX	133303461	TACAGATGGATACCGTGCA
hsa-miR-199a-3p	0.008666725	up	15.315633	0				TAACCAATGTGCAGACTACT
hsa-miR-3150b-5p	0.003867069	up	8.989869	0				GCTGGGGAGATCCCTC
hsa-miR-3180-5p	0.003407051	up	9.351596	0				CGACGTGGGGCG
hsa-miR-199b-5p	0.010795566	up	9.921543	0	130046868	chr9	130046848	GAACAGATAGTCTAAACACTGG
hsa-miR-4522	0.003617093	up	9.227185	0				ACCGCCTACAGGC
hsa-miR-1273c	0.002967312	up	9.660821	0				GACAGGGTCTCGTTTT
hsa-miR-650	0.005336819	up	8.196045	0				GTCCTGAGAGCGCTGC
hsa-miR-223-3p	0.03829981	up	5.2240996	0	65238781	chrX	65238800	TGGGGTATTTGACAAACTGAC
hur_4	0.04967646	up	4.5615907	1				
hur_6	0.036919903	up	5.2143908	1				
mr_1	0.042913552	up	5.1275754	1				
hur_1	0.024040453	up	6.319014	1				
hur_2	0.024675658	up	6.469756	1				
hsa-miR-16-5p	0.048411675	up	4.7574024	0	160122545	chr3	160122563	CGCCAATATTTACGTGCTG
hsa-miR-4516	0.030257557	up	5.1458044	0				GCCCCGACCCTTC
hsa-miR-6127	0.04299024	up	3.9876077	0				CCTCCCACCCACTC
hsa-miR-4286	0.017679881	up	6.8408685	0				GGTACCAGGAGTGGG
hsa-miR-5100	0.049008764	up	4.6019483	0				AGAGGCACCGCTGG
hsa-miR-22-3p	0.04928056	up	4.438975	0	1617270	chr17	1617253	ACAGTTCTTCAACTGGCAG
hsa-miR-27a-3p	0.040248	up	4.781815	0	13947324	chr19	13947309	GCGGAACCTAGCCACTG
hsa-miR-4485-5p	0.048162304	up	4.2356977	0				TCACTGGGCAGGCG
hsa-miR-15b-5p	0.031606857	up	5.982546	0	160122398	chr3	160122416	TGTAAACCATGATGTGCTGC
hsa-miR-29a-3p	0.03231636	up	5.4856977	0	130561568	chr7	130561550	TAACCGATTTCAGATGGTGC
hsa-miR-29c-3p	0.046740633	up	4.4048157	0	207975271	chr1	207975251	TAACCGATTTCAAATGGTGCTA
hsa-miR-150-5p	0.042706717	up	7.418096	0	50004078	chr19	50004062	CACTGGTACAAGGGTTGG
hsa-miR-106b-5p	0.028587645	up	6.447386	0	99691647	chr7	99691632	ATCTGCACTGTCAGCAC
hsa-miR-140-3p	0.04651442	up	4.5843396	0				CCGTGGTTCTACCCT
hsa-miR-20a-5p	0.033091273	up	5.9461317	0	92003331	chr13	92003348	CTACCTGCACTATAAGCAC
hsa-miR-25-3p	0.041294426	up	5.0316143	0	99691255	chr7	99691239	TCAGACCCGAGACAAGTGC
hsa-miR-19b-3p	0.028313067	up	7.101863	0	92003502	chr13	92003521	TCAGTTTTGCATAGATTGCA
hsa-miR-6826-5p	0.045792818	up	4.585167	0				AGGTCCACCTCTTTC
hsa-miR-4497	0.049309887	up	4.0255284	0				GCCCAGCCGTCC
hsa-miR-4443	0.02851976	up	5.278011	0				AAAACCCACGCCTCC
hsa-miR-4485-3p	0.033750325	up	4.7697577	0	10529866	chr11	10529853	TTAGGGTACCGCGGC
hsa-miR-3935	0.023193784	down	-6.29944	0				GTGGCTGGTGCTCG
hsa-miR-19a-3p	0.023187112	up	9.620313	0	92003196	chr13	92003215	TGAGTTTGCATAGATTGCA
hsa-miR-664b-3p	0.031872638	up	5.9220943	0	153996918	chrX	153996931	TGTAGGCTGGGAGGC
hsa-miR-3195	0.035401884	up	4.7078376	0				AACCCGGGCCCCG
hsa-miR-320b	0.040609892	up	5.0348024	0				TTGCCCTCTCAACCC

**Table S7. Gene expression changes for genes from cut set defined in Fig. 3B of AR-AIT versus HC**

ProbeName	p ([AR-] Vs [HC])	Regulation ([AR-] Vs [HC])	FC ([AR-] Vs [HC])	GeneSymbol	Description
A_33_P3396872	0.003557393	down	-2.3489861	CPED1	Homo sapiens cadherin-like and PC-esterase domain containing 1 (CPED1), transcript variant 2, mRNA [NM_001105533]
A_33_P6455786	0.017343698	down	-1.5593534	ANTXR2	Homo sapiens anthrax toxin receptor 2 (ANTXR2), transcript variant 1, mRNA [NM_058172]
A_23_P83436	6.73E-04	down	-1.8219993	PEPD	Homo sapiens peptidase D (PEPD), transcript variant 1, mRNA [NM_000285]
A_23_P215406	6.63E-04	down	-1.696226	RAC1	Homo sapiens ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) (RAC1), transcript variant Rac1b, mRNA [NM_018890]
A_33_P3223467	1.90E-06	down	-2.3728657	VCPIP1	Homo sapiens valosin containing protein (p97)/p47 complex interacting protein 1 (VCPIP1), mRNA [NM_025054]
A_24_P76879	1.60E-04	down	-1.9254186	TSPYL1	Homo sapiens TSPY-like 1 (TSPYL1), mRNA [NM_003309]
A_23_P256632	3.67E-05	down	-1.9931833	PGGT1B	Homo sapiens protein geranylgeranyltransferase type I, beta subunit (PGGT1B), mRNA [NM_005023]
A_22_P00020384	1.22E-05	down	-2.259905	SYNJ2BP-COX16	Homo sapiens SYNJ2BP-COX16 readthrough (SYNJ2BP-COX16), transcript variant 1, mRNA [NM_001202547]
A_23_P110288	0.013436165	down	-1.734865	GSTCD	Homo sapiens glutathione S-transferase, C-terminal domain containing (GSTCD), transcript variant 2, mRNA [NM_024751]
A_23_P110167	8.20E-04	down	-1.7375015	MGST2	Homo sapiens microsomal glutathione S-transferase 2 (MGST2), transcript variant 1, mRNA [NM_002413]
A_24_P250499	0.001540618	down	-1.6145463	RPRD1B	Homo sapiens regulation of nuclear pre-mRNA domain containing 1B (RPRD1B), mRNA [NM_021215]
A_23_P431939	6.41E-04	down	-1.6142184	MR1	Homo sapiens major histocompatibility complex, class I-related (MR1), transcript variant 1, mRNA [NM_001531]
A_23_P133424	3.06E-04	down	-1.6905649	SKP1	Homo sapiens S-phase kinase-associated protein 1 (SKP1), transcript variant 1, mRNA [NM_006930]
A_33_P3338559	8.22E-05	down	-2.1883047	RBBP4	Homo sapiens retinoblastoma binding protein 4 (RBBP4), transcript variant 1, mRNA [NM_005610]
A_24_P942030	0.011922509	down	-1.6396983	VAMP4	Homo sapiens vesicle-associated membrane protein 4 (VAMP4), transcript variant 1, mRNA [NM_003762]
A_33_P3251108	4.77E-04	down	-1.9526358	SLC33A1	Homo sapiens solute carrier family 33 (acetyl-CoA transporter), member 1 (SLC33A1), transcript variant 2, mRNA [NM_001190992]
A_23_P379475	0.006426141	down	-1.7162476	DHCR24	Homo sapiens 24-dehydrocholesterol reductase (DHCR24), mRNA [NM_014762]
A_23_P122775	8.43E-04	down	-1.7127842	RTN4IP1	Homo sapiens reticulon 4 interacting protein 1 (RTN4IP1), mRNA [NM_032730]
A_24_P50028	0.007743224	down	-3.113002	RAB39A	Homo sapiens RAB39A, member RAS oncogene family (RAB39A), mRNA [NM_017516]
A_33_P3221353	0.016996117	down	-1.5072367	VWA8	Homo sapiens von Willebrand factor A domain containing 8 (VWA8), transcript variant 2, mRNA [NM_001009814]
A_23_P411723	2.07E-04	down	-1.9160252	PLAG1	Homo sapiens pleiomorphic adenoma gene 1 (PLAG1), transcript variant 1, mRNA [NM_002655]
A_23_P202496	0.001608568	down	-1.6350737	NOC3L	Homo sapiens nucleolar complex associated 3 homolog (S. cerevisiae) (NOC3L), mRNA [NM_022451]
A_33_P3252141	6.49E-04	down	-1.6458377	TMX3	Homo sapiens thioredoxin-related transmembrane protein 3 (TMX3), mRNA [NM_019022]
A_32_P151366	0.014979737	down	-1.505278	SIRT5	Homo sapiens sirtuin 5 (SIRT5), transcript variant 1, mRNA [NM_012241]
A_32_P141969	0.008958893	down	-2.5594287	NTRK3	neurotrophic tyrosine kinase, receptor, type 3 [Source:HGNC Symbol;Acc:HGNC:8033] [ENST00000394480]
A_23_P106998	0.002733927	down	-1.5115569	MRPS23	Homo sapiens mitochondrial ribosomal protein S23 (MRPS23), mRNA [NM_016070]
A_32_P131367	7.40E-05	down	-1.8169061	RNF13	Homo sapiens ring finger protein 13 (RNF13), transcript variant 1, mRNA [NM_007282]
A_23_P202602	0.001372546	down	-1.8311105	SEC23IP	Homo sapiens SEC23 interacting protein (SEC23IP), transcript variant 1, mRNA [NM_007190]
A_23_P118516	7.72E-04	down	-1.9619852	TVP23B	Homo sapiens trans-golgi network vesicle protein 23 homolog B (S. cerevisiae) (TVP23B), mRNA [NM_016078]
A_33_P3373885	0.018006127	down	-1.7183323	NAA35	N(alpha)-acetyltransferase 35, NatC auxiliary subunit [Source:HGNC Symbol;Acc:HGNC:24340] [ENST00000416045]
A_24_P364807	0.005545566	down	-1.8482512	LPCAT2	Homo sapiens lysophosphatidylcholine acyltransferase 2 (LPCAT2), mRNA [NM_017839]
A_33_P3264089	6.24E-04	down	-1.9967911	ACTR3C	Homo sapiens ARP3 actin-related protein 3 homolog C (yeast) (ACTR3C), transcript variant 1, mRNA [NM_001164458]
A_23_P45294	5.35E-04	down	-1.68183	FAM199X	Homo sapiens family with sequence similarity 199, X-linked (FAM199X), mRNA [NM_0207318]
A_33_P3254136	0.013088718	down	-1.927139	PKHD1L1	Homo sapiens polycystic kidney and hepatic disease 1 (autosomal recessive)-like 1 (PKHD1L1), mRNA [NM_177531]
A_33_P3257027	0.003412429	down	-1.9168295	FGF7	Homo sapiens fibroblast growth factor 7 (FGF7), mRNA [NM_002009]
A_23_P377299	0.004101043	down	-1.9212806	ECE2	Homo sapiens endothelin converting enzyme 2 (ECE2), transcript variant 1, mRNA [NM_014693]
A_23_P120883	0.007147152	down	-1.7202667	HMOX1	Homo sapiens heme oxygenase (decycling) 1 (HMOX1), mRNA [NM_002133]
A_23_P73835	0.00191922	down	-1.9102542	MOSPD1	Homo sapiens motile sperm domain containing 1 (MOSPD1), mRNA [NM_019556]
A_24_P920646	0.01078197	down	-1.702217	CYP19A1	Homo sapiens cytochrome P450, family 19, subfamily A, polypeptide 1, mRNA (cDNA clone IMAGE:5588077), complete cds. [BC035714]

A_33_P3279431	3.01E-04	down	-1.8563578	GOSR1	Homo sapiens golgi SNAP receptor complex member 1 (GOSR1), transcript variant 3, mRNA [NM_001007024]
A_23_P209337	0.00736613	down	-1.5906414	METTL21A	Homo sapiens methyltransferase like 21A (METTL21A), transcript variant 1, mRNA [NM_145280]
A_23_P30020	6.16E-04	down	-1.7439581	PLA2G12A	Homo sapiens phospholipase A2, group XIIA (PLA2G12A), mRNA [NM_030821]
A_23_P31866	4.94E-04	down	-2.025804	MED30	Homo sapiens mediator complex subunit 30 (MED30), transcript variant 1, mRNA [NM_080651]
A_23_P131435	7.12E-04	down	-1.9341532	CD302	Homo sapiens CD302 molecule (CD302), transcript variant 1, mRNA [NM_014880]
A_33_P3288659	0.03808374	down	-1.6321762	ACTL8	Homo sapiens actin-like 8 (ACTL8), mRNA [NM_030812]
A_23_P110712	0.020295577	down	-1.5230163	DUSP1	Homo sapiens dual specificity phosphatase 1 (DUSP1), mRNA [NM_004417]
A_21_P0009685	2.50E-05	down	-2.052863	TMEM167A	Homo sapiens transmembrane protein 167A (TMEM167A), mRNA [NM_174909]
A_23_P52058	0.045418393	down	-1.5156056	TARBP1	Homo sapiens TAR (HIV-1) RNA binding protein 1 (TARBP1), mRNA [NM_005646]
A_23_P366453	0.028635979	down	-2.6971605	KHDRBS2	Homo sapiens KH domain containing, RNA binding, signal transduction associated 2 (KHDRBS2), mRNA [NM_152688]
A_24_P544882	0.005729221	down	-1.7288666	SSR1	Homo sapiens signal sequence receptor, alpha (SSR1), transcript variant 1, mRNA [NM_003144]
A_24_P396702	0.005196808	down	-1.6005006	CD302	Homo sapiens CD302 molecule (CD302), transcript variant 1, mRNA [NM_014880]
A_24_P254744	0.041706488	down	-2.2531416	EPHA3	Homo sapiens EPH receptor A3 (EPHA3), transcript variant 2, mRNA [NM_182644]
A_33_P3334308	2.37E-04	down	-1.9456458	ZXDB	Homo sapiens zinc finger, X-linked, duplicated B (ZXDB), mRNA [NM_007157]
A_23_P259442	3.78E-05	down	-2.3181357	CPE	Homo sapiens carboxypeptidase E (CPE), mRNA [NM_001873]
A_33_P3316555	4.36E-04	down	-1.6696582	MGST3	Homo sapiens microsomal glutathione S-transferase 3 (MGST3), mRNA [NM_004528]
A_24_P156922	0.005145475	down	-1.8651619	SCP2	Homo sapiens sterol carrier protein 2 (SCP2), transcript variant 2, mRNA [NM_001007098]
A_23_P24515	0.001471583	down	-1.8061931	ACAT1	Homo sapiens acetyl-CoA acetyltransferase 1 (ACAT1), mRNA [NM_000019]
A_33_P3495783	0.013935539	down	-1.5848765	XKR4	XK, Kell blood group complex subunit-related family, member 4 [Source:HGNC Symbol;Acc:HGNC:29394] [ENST00000327381]
A_24_P192805	0.008883304	down	-1.6931151	CARD17	Homo sapiens caspase recruitment domain family, member 17 (CARD17), mRNA [NM_001007232]
A_24_P185036	5.25E-04	down	-1.817877	CMTR2	Homo sapiens cap methyltransferase 2 (CMTR2), transcript variant 1, mRNA [NM_018348]
A_33_P3381191	0.013571066	down	-1.8126549	FOXRED2	Homo sapiens FAD-dependent oxidoreductase domain containing 2 (FOXRED2), transcript variant 1, mRNA [NM_024955]
A_23_P422724	7.24E-04	down	-2.2506034	PPIC	Homo sapiens peptidylprolyl isomerase C (cyclophilin C) (PPIC), mRNA [NM_000943]
A_23_P252711	3.47E-04	down	-1.8444946	LACTB2	Homo sapiens lactamase, beta 2 (LACTB2), mRNA [NM_016027]
A_23_P370142	2.79E-04	down	-1.7696563	PAFAH1B2	Homo sapiens platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30kDa) (PAFAH1B2), transcript variant 1, mRNA [NM_002572]
A_33_P3361741	8.14E-05	down	-1.8279525	DNAJC15	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 15 (DNAJC15), mRNA [NM_013238]
A_33_P3278475	1.79E-04	down	-1.9636704	FOXN2	Homo sapiens forkhead box N2 (FOXN2), mRNA [NM_002158]
A_33_P3243707	0.002135161	down	-1.6032124	KLHL20	Homo sapiens kelch-like family member 20 (KLHL20), mRNA [NM_014458]
A_23_P1431	0.012263466	down	-1.7249124	BMPR1A	Homo sapiens bone morphogenetic protein receptor, type IA (BMPR1A), mRNA [NM_004329]
A_24_P100996	3.94E-04	down	-2.100258	ANO5	Homo sapiens anoctamin 5 (ANO5), transcript variant 1, mRNA [NM_213599]
A_24_P55250	5.29E-04	down	-1.9464532	HDCC2	Homo sapiens HD domain containing 2 (HDCC2), mRNA [NM_016063]
A_23_P133694	0.009770916	down	-1.800563	SLC29A1	Homo sapiens solute carrier family 29 (equilibrative nucleoside transporter), member 1 (SLC29A1), transcript variant 1, mRNA [NM_001078177]
A_23_P19938	6.33E-05	down	-1.9959335	KDELR2	Homo sapiens KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2 (KDELR2), transcript variant 1, mRNA [NM_006854]
A_23_P11543	0.01673374	down	-1.7581292	FUCA1	Homo sapiens fucosidase, alpha-L-1, tissue (FUCA1), mRNA [NM_000147]
A_24_P188800	0.007240868	down	-1.6090146	MARCH1	Homo sapiens membrane-associated ring finger (C3HC4) 1, E3 ubiquitin protein ligase (MARCH1), transcript variant 2, mRNA [NM_017923]
A_23_P167349	0.038373068	down	-1.734164	GC	Homo sapiens group-specific component (vitamin D binding protein) (GC), transcript variant 1, mRNA [NM_000583]
A_23_P70318	0.002166997	down	-1.6228845	ENPP4	Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative) (ENPP4), mRNA [NM_014936]
A_33_P3371224	0.007489184	down	-1.5234734	ANO10	Homo sapiens anoctamin 10 (ANO10), transcript variant 2, mRNA [NM_001204831]
A_33_P3378272	0.027339326	down	-1.9407017	CLDN4	claudin 4 [Source:HGNC Symbol;Acc:HGNC:2046] [ENST00000431918]
A_23_P214244	2.77E-05	down	-2.5850294	ENPP5	Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative) (ENPP5), transcript variant 2, mRNA [NM_021572]
A_24_P355876	1.48E-04	down	-1.8693832	TMBIM6	Homo sapiens transmembrane BAX inhibitor motif containing 6 (TMBIM6), transcript variant 1, mRNA [NM_003217]
A_24_P54178	8.09E-05	down	-1.9825674	TMED5	Homo sapiens transmembrane emp24 protein transport domain containing 5 (TMED5), transcript variant 1, mRNA [NM_016040]
A_23_P68472	0.001212112	down	-2.0310066	DPM1	Homo sapiens dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit (DPM1), mRNA [NM_003859]
A_33_P3342528	0.018124323	down	-1.6628097	P2RY1	Homo sapiens purinergic receptor P2Y, G-protein coupled, 1 (P2RY1), mRNA [NM_002563]
A_23_P333228	0.038892973	down	-1.5460228	MARCH4	Homo sapiens membrane-associated ring finger (C3HC4) 4, E3 ubiquitin protein ligase (MARCH4), mRNA [NM_020814]
A_24_P171983	2.04E-04	down	-1.9800321	NDUFAF4	Homo sapiens NADH dehydrogenase (ubiquinone) complex I, assembly factor 4 (NDUFAF4), mRNA [NM_014165]
A_23_P41437	9.78E-05	down	-1.9188089	UFSP2	Homo sapiens UFM1-specific peptidase 2 (UFSP2), transcript variant 1, mRNA [NM_018359]
A_23_P101208	0.00323723	down	-1.7510192	CYB5A	Homo sapiens cytochrome b5 type A (microsomal) (CYB5A), transcript variant 2, mRNA [NM_001914]

A_33_P3325748	0.028468449	down	-1.5074817	TRIOBP	Homo sapiens TRIO and F-actin binding protein (TRIOBP), transcript variant 2, mRNA [NM_138632]
A_23_P120153	0.002713522	down	-1.5843253	RNF149	Homo sapiens ring finger protein 149 (RNF149), mRNA [NM_173647]
A_23_P2501	0.04707898	down	-1.5091753	PAH	Homo sapiens phenylalanine hydroxylase (PAH), mRNA [NM_000277]
A_24_P13715	0.004162691	down	-2.8893948	FBXO22	Homo sapiens F-box protein 22 (FBXO22), transcript variant 1, mRNA [NM_147188]
A_23_P85682	0.006510145	down	-1.8756105	NFIA	Homo sapiens nuclear factor I/A (NFIA), transcript variant 2, mRNA [NM_005595]
A_24_P382119	6.84E-04	down	-1.66107	MTMR4	Homo sapiens myotubularin related protein 4 (MTMR4), mRNA [NM_004687]
A_23_P88522	0.006170855	down	-1.6073592	NMB	Homo sapiens neuromedin B (NMB), transcript variant 1, mRNA [NM_021077]
A_33_P3258091	0.001487662	down	-1.6746497	RNPEP	Homo sapiens arginyl aminopeptidase (aminopeptidase B) (RNPEP), mRNA [NM_020216]
A_24_P230938	0.018786222	down	-1.5264279	MORN4	Homo sapiens MORN repeat containing 4, mRNA (cDNA clone IMAGE:4690584), complete cds. [BC022054]
A_23_P58877	0.00114434	down	-1.8850211	GOPC	Homo sapiens golgi-associated PDZ and coiled-coil motif containing (GOPC), transcript variant 1, mRNA [NM_020399]
A_33_P3257457	0.038839176	down	-2.0040798	TAF1L	Homo sapiens TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 210kDa-like (TAF1L), mRNA [NM_153809]
A_33_P3389168	0.034131624	down	-1.6345898	MTM1	myotubularin 1 [Source:HGNC Symbol;Acc:HGNC:7448][ENST00000370393]
A_33_P3359115	1.01E-04	down	-1.9151101	LMBRD1	Homo sapiens LMBR1 domain containing 1 (LMBRD1), mRNA [NM_018368]
A_32_P90483	0.047008228	down	-1.699323	STXBP4	Homo sapiens syntaxin binding protein 4 (STXBP4), mRNA [NM_178509]
A_24_P941322	2.29E-04	down	-1.6769469	QKI	Homo sapiens QKI, KH domain containing, RNA binding (QKI), transcript variant 1, mRNA [NM_006775]
A_24_P219971	5.75E-04	down	-1.7768213	GID8	Homo sapiens GID complex subunit 8 (GID8), mRNA [NM_017896]
A_33_P3217819	0.008014904	down	-2.9481997	CCNE2	Homo sapiens cyclin E2 (CCNE2), mRNA [NM_057749]
A_23_P25433	7.09E-04	down	-1.7437295	C12orf4	Homo sapiens chromosome 12 open reading frame 4 (C12orf4), mRNA [NM_020374]
A_23_P415652	0.002348763	down	-1.7107223	GALNT12	Homo sapiens polypeptide N-acetylgalactosaminyltransferase 12 (GALNT12), mRNA [NM_024642]
A_32_P190769	0.041876774	down	-1.5272696	C1QTNF7	Homo sapiens C1q and tumor necrosis factor related protein 7 (C1QTNF7), transcript variant 3, mRNA [NM_031911]
A_33_P3419460	0.005895314	down	-1.6321744	VAPA	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa (VAPA), transcript variant 1, mRNA [NM_003574]
A_24_P364970	0.009099	down	-1.5539805	DHX33	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 33 (DHX33), transcript variant 1, mRNA [NM_020162]
A_24_P295543	0.006566912	down	-1.6722815	BLOC1S2	Homo sapiens biogenesis of lysosomal organelles complex-1, subunit 2 (BLOC1S2), transcript variant 2, mRNA [NM_001001342]
A_24_P143138	0.032269537	down	-1.6679686	FGD1	Homo sapiens FYVE, RhoGEF and PH domain containing 1 (FGD1), mRNA [NM_004463]
A_24_P305764	0.007738771	down	-1.7101027	SMS	Homo sapiens spermine synthase (SMS), transcript variant 1, mRNA [NM_004595]
A_23_P22682	2.73E-05	down	-1.98074	ARMCX1	Homo sapiens armadillo repeat containing, X-linked 1 (ARMCX1), mRNA [NM_016608]
A_24_P40551	5.05E-04	down	-2.1262784	BEX4	Homo sapiens brain expressed, X-linked 4 (BEX4), transcript variant 2, mRNA [NM_001080425]
A_23_P148959	3.11E-04	down	-1.6707635	TM2D1	Homo sapiens TM2 domain containing 1 (TM2D1), mRNA [NM_032027]
A_33_P3242873	0.002258694	down	-1.6754987	MPC1	Homo sapiens mitochondrial pyruvate carrier 1 (MPC1), transcript variant 2, mRNA [NM_001270879]
A_33_P3261167	0.001319981	down	-1.6863301	GNS	Homo sapiens glucosamine (N-acetyl)-6-sulfatase (GNS), mRNA [NM_002076]
A_33_P3223239	0.0426469	down	-1.5112407	ST7L	Homo sapiens suppression of tumorigenicity 7 like (ST7L), transcript variant 4, mRNA [NM_138729]
A_33_P3253975	0.01727209	down	-1.6017913	ACAT1	Homo sapiens acetyl-CoA acetyltransferase 1 (ACAT1), mRNA [NM_000019]
A_23_P133582	9.50E-04	down	-1.6367526	ETF1	Homo sapiens eukaryotic translation termination factor 1 (ETF1), transcript variant 1, mRNA [NM_004730]
A_33_P3213064	5.48E-04	down	-1.7717144	STAT2	Homo sapiens signal transducer and activator of transcription 2, 113kDa (STAT2), transcript variant 1, mRNA [NM_005419]
A_23_P251945	3.03E-04	down	-1.9362628	DCTN4	Homo sapiens dynactin 4 (p62) (DCTN4), transcript variant 2, mRNA [NM_016221]
A_33_P3301025	7.96E-04	down	-1.6559476	CPOX	Homo sapiens coproporphyrinogen oxidase (CPOX), mRNA [NM_000097]
A_23_P328074	0.0109792	down	-1.8106774	SALL1	Homo sapiens spalt-like transcription factor 1 (SALL1), transcript variant 1, mRNA [NM_002968]
A_33_P3214849	0.004357204	down	-1.729515	KDEL2	Homo sapiens KDEL (Lys-Asp-Glu-Leu) containing 2 (KDEL2), mRNA [NM_153705]
A_33_P3396492	0.002488327	down	-1.6114223	CDH24	Homo sapiens cadherin 24, type 2 (CDH24), transcript variant 1, mRNA [NM_022478]
A_23_P28169	0.002072885	down	-1.7667912	ARL6IP6	Homo sapiens ADP-ribosylation factor-like 6 interacting protein 6 (ARL6IP6), transcript variant 1, mRNA [NM_152522]
A_23_P129246	0.003357625	down	-1.5186011	PLEKHO2	Homo sapiens pleckstrin homology domain containing, family O member 2 (PLEKHO2), transcript variant 1, mRNA [NM_025201]
A_33_P3273822	0.011922575	down	-1.7300819	FBXO11	F-box protein 11 [Source:HGNC Symbol;Acc:HGNC:13590][ENST00000434234]
A_23_P126582	0.039650764	down	-2.3693335	CASQ2	Homo sapiens calsequestrin 2 (cardiac muscle) (CASQ2), mRNA [NM_001232]
A_23_P143845	8.37E-04	down	-1.699389	TIPARP	Homo sapiens TCDD-inducible poly(ADP-ribose) polymerase (TIPARP), transcript variant 2, mRNA [NM_015508]
A_23_P40782	0.001737358	down	-1.8624697	COMMD2	Homo sapiens COMM domain containing 2 (COMMD2), mRNA [NM_016094]
A_23_P39718	6.15E-04	down	-1.9337803	FEZ2	Homo sapiens fasciculation and elongation protein zeta 2 (zyglin II) (FEZ2), transcript variant 2, mRNA [NM_001042548]
A_23_P49674	2.01E-04	down	-1.6867956	ARHGEF15	Homo sapiens Rho guanine nucleotide exchange factor (GEF) 15 (ARHGEF15), transcript variant 1, mRNA [NM_173728]
A_23_P12329	3.15E-04	down	-1.9772017	APH1A	Homo sapiens APH1A gamma secretase subunit (APH1A), transcript variant 2, mRNA [NM_016022]
A_24_P115621	0.011300586	down	-1.7543682	EIF4EBP2	Homo sapiens eukaryotic translation initiation factor 4E binding protein 2 (EIF4EBP2), mRNA [NM_004096]
A_23_P65386	0.032454196	down	-1.5360459	OTUB2	Homo sapiens OTU deubiquitinase, ubiquitin aldehyde binding 2 (OTUB2), mRNA [NM_023112]

A_33_P3301050	0.022764465	down	-1.6485662	HHLA1	Homo sapiens HERV-H LTR-associating 1 (HHLA1), mRNA [NM_001145095]
A_24_P87490	2.65E-05	down	-2.073945	TVP23C	Homo sapiens trans-golgi network vesicle protein 23 homolog C (S. cerevisiae) (TVP23C), transcript variant 1, mRNA [NM_145301]
A_32_P61684	9.40E-04	down	-1.8552166	PAG1	Homo sapiens phosphoprotein membrane anchor with glycosphingolipid microdomains 1 (PAG1), mRNA [NM_018440]
A_33_P3379326	0.003292176	down	-1.7744204	MSR1	Homo sapiens macrophage scavenger receptor 1 (MSR1), transcript variant SR-AI, mRNA [NM_138715]
A_24_P374516	0.005319609	down	-1.7141161	TMSB4X	Homo sapiens thymosin beta 4, X-linked (TMSB4X), mRNA [NM_021109]
A_32_P203300	0.002813285	down	-1.5460619	EIF4E	Homo sapiens eukaryotic translation initiation factor 4E (EIF4E), transcript variant 2, mRNA [NM_001130679]
A_23_P362046	1.35E-04	down	-2.1863728	TEX30	Homo sapiens testis expressed 30 (TEX30), transcript variant 1, mRNA [NM_138779]
A_23_P502170	0.001438871	down	-1.6858422	DYNC2L1	Homo sapiens dynein, cytoplasmic 2, light intermediate chain 1 (DYNC2L1), transcript variant 2, mRNA [NM_015522]
A_23_P154894	0.004602743	down	-1.5621629	CSTB	Homo sapiens cystatin B (stefin B) (CSTB), mRNA [NM_000100]
A_23_P43071	0.009178089	down	-1.5649575	MTERF3	Homo sapiens mitochondrial transcription termination factor 3 (MTERF3), transcript variant 1, mRNA [NM_015942]
A_23_P11353	0.006868061	down	-1.5476362	ATP6AP2	Homo sapiens ATPase, H+ transporting, lysosomal accessory protein 2 (ATP6AP2), mRNA [NM_005765]
A_24_P48723	0.001838354	down	-2.4398892	PTGIS	Homo sapiens prostaglandin I2 (prostacyclin) synthase (PTGIS), mRNA [NM_000961]
A_23_P206382	0.004489881	down	-1.5442073	C16orf70	Homo sapiens chromosome 16 open reading frame 70 (C16orf70), mRNA [NM_025187]
A_24_P397903	0.002799548	down	-1.8868104	ZC2HC1A	Homo sapiens zinc finger, C2HC-type containing 1A (ZC2HC1A), mRNA [NM_016010]
A_23_P32913	0.001840157	down	-1.610288	ARMC10	Homo sapiens armadillo repeat containing 10 (ARMC10), transcript variant A, mRNA [NM_031905]
A_23_P13701	1.91E-04	down	-2.2358627	TMBIM4	Homo sapiens transmembrane BAX inhibitor motif containing 4 (TMBIM4), transcript variant 2, mRNA [NM_016056]
A_23_P50217	1.88E-04	down	-1.752941	ZNF671	Homo sapiens zinc finger protein 671 (ZNF671), mRNA [NM_024833]
A_23_P334990	3.55E-04	down	-1.7496451	SUDS3	Homo sapiens suppressor of defective silencing 3 homolog (S. cerevisiae) (SUDS3), mRNA [NM_022491]
A_23_P18325	1.60E-04	down	-1.7739203	PDCD10	Homo sapiens programmed cell death 10 (PDCD10), transcript variant 1, mRNA [NM_007217]
A_33_P3231120	0.002215244	down	-1.846894	CASD1	Homo sapiens CAS1 domain containing 1 (CASD1), mRNA [NM_022900]
A_33_P3221783	0.030681355	down	-1.5748432	TSLP	Homo sapiens thymic stromal lymphopoietin (TSLP), transcript variant 1, mRNA [NM_033035]
A_21_P0014015	0.029414406	down	-1.8135376	CNP	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:HGNC Symbol;Acc:HGNC:2158] [ENST00000592861]
A_23_P151436	8.91E-05	down	-1.872058	ALG5	Homo sapiens ALG5, dolichyl-phosphate beta-glucosyltransferase (ALG5), transcript variant 1, mRNA [NM_013338]
A_23_P103282	2.99E-05	down	-1.9581758	TMEM59	Homo sapiens transmembrane protein 59 (TMEM59), mRNA [NM_004872]
A_24_P394698	1.60E-04	down	-1.9471017	ORC5	Homo sapiens origin recognition complex, subunit 5 (ORC5), transcript variant 2, mRNA [NM_181747]
A_24_P326708	0.003375691	down	-1.79763	BRSK2	Homo sapiens BR serine/threonine kinase 2 (BRSK2), transcript variant 2, mRNA [NM_003957]
A_23_P335848	0.003567088	down	-1.5068983	GIT2	Homo sapiens G protein-coupled receptor kinase interacting ArfGAP 2 (GIT2), transcript variant 1, mRNA [NM_057169]
A_33_P3337627	0.015342942	down	-1.5310552	TRPC6	Homo sapiens transient receptor potential cation channel, subfamily C, member 6 (TRPC6), mRNA [NM_004621]
A_23_P316447	0.013710298	down	-1.8083597	FGFR1	fibroblast growth factor receptor 1 [Source:HGNC Symbol;Acc:HGNC:3688] [ENST00000496296]
A_33_P3322328	6.70E-04	down	-1.687461	EPS15	Homo sapiens epidermal growth factor receptor pathway substrate 15 (EPS15), transcript variant 1, mRNA [NM_001981]
A_23_P20225	1.71E-04	down	-2.4660559	RRM2B	Homo sapiens ribonucleotide reductase M2 B (TP53 inducible) (RRM2B), transcript variant 1, mRNA [NM_015713]
A_23_P252783	2.64E-04	down	-1.8501998	SLC2A8	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 8 (SLC2A8), transcript variant 1, mRNA [NM_014580]
A_23_P166297	0.001457866	down	-1.5782329	ABCG1	Homo sapiens ATP-binding cassette, sub-family G (WHITE), member 1 (ABCG1), transcript variant 5, mRNA [NM_207627]
A_24_P605190	0.004852123	down	-1.7169155	PGGT1B	Homo sapiens protein geranylgeranyltransferase type I, beta subunit (PGGT1B), mRNA [NM_005023]
A_23_P205007	1.97E-04	down	-1.9002829	IPO5	Homo sapiens importin 5 (IPO5), mRNA [NM_002271]
A_23_P255503	0.010812159	down	-1.5861402	PAFAH1B2	Homo sapiens platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30kDa) (PAFAH1B2), transcript variant 1, mRNA [NM_002572]
A_23_P165608	0.001691285	down	-1.6841604	SEMA4F	Homo sapiens sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F (SEMA4F), transcript variant 1, mRNA [NM_004263]
A_23_P120062	0.012552924	down	-1.5124341	GCFC2	Homo sapiens GC-rich sequence DNA-binding factor 2 (GCFC2), transcript variant 1, mRNA [NM_003203]
A_23_P156061	0.004550992	down	-1.7041519	LNPEP	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), transcript variant 1, mRNA [NM_005575]
A_22_P00022810	0.003495317	down	-1.5740031	POFUT1	Homo sapiens protein O-fucosyltransferase 1 (POFUT1), transcript variant 1, mRNA [NM_015352]
A_23_P28652	0.002966243	down	-1.8682477	ATRAID	Homo sapiens all-trans retinoic acid-induced differentiation factor (ATRAID), transcript variant 1, mRNA [NM_016085]
A_23_P257198	0.001986614	down	-1.6500078	NDUFS4	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase) (NDUFS4), mRNA [NM_002495]
A_24_P46953	0.0021378	down	-1.6863593	SGK3	Homo sapiens serum/glucocorticoid regulated kinase family, member 3 (SGK3), transcript variant 1, mRNA [NM_013257]
A_23_P134925	6.00E-05	down	-2.1403408	BNIP3L	Homo sapiens BCL2/adenovirus E1B 19kDa interacting protein 3-like (BNIP3L), mRNA [NM_004331]
A_23_P419947	0.005857869	down	-1.7023757	MLF1	Homo sapiens myeloid leukemia factor 1 (MLF1), transcript variant 1, mRNA [NM_022443]
A_33_P3223544	2.59E-04	down	-1.7049671	TMBIM4	Homo sapiens transmembrane BAX inhibitor motif containing 4 (TMBIM4), transcript variant 1, mRNA [NM_001282606]

A_23_P71513	0.002013957	down	-1.6194972	EFR3A	Homo sapiens EFR3 homolog A (S. cerevisiae) (EFR3A), mRNA [NM_015137]
A_33_P3398392	0.024379948	down	-1.616422	FHL1	four and a half LIM domains 1 [Source:HGNC Symbol;Acc:HGNC:3702] [ENST00000370674]
A_24_P166311	3.08E-04	down	-1.9559196	ZBED8	Homo sapiens zinc finger, BED-type containing 8 (ZBED8), transcript variant 2, mRNA [NM_022090]
A_33_P3362641	2.19E-05	down	-1.9287082	CISD2	Homo sapiens CDGSH iron sulfur domain 2 (CISD2), mRNA [NM_001008388]
A_23_P28105	5.48E-04	down	-1.8623825	TSN	Homo sapiens translin (TSN), transcript variant 1, mRNA [NM_004622]
A_33_P3307875	5.71E-04	down	-1.7177256	SPTSSA	Homo sapiens serine palmitoyltransferase, small subunit A (SPTSSA), mRNA [NM_138288]
A_21_P0000090	0.001082071	down	-1.8397288	TSFM	Homo sapiens Ts translation elongation factor, mitochondrial (TSFM), transcript variant 4, mRNA [NM_001172697]
A_33_P3424217	0.001443654	down	-1.8607017	HLA-DQB1	Homo sapiens major histocompatibility complex, class II, DQ beta 1 (HLA-DQB1), transcript variant 3, mRNA [NM_001243962]
A_33_P3212782	1.22E-04	down	-2.2483828	CALM2	Homo sapiens calmodulin 2 (phosphorylase kinase, delta) (CALM2), mRNA [NM_001743]
A_33_P3399870	0.00201689	down	-1.6540102	CERS6	Homo sapiens ceramide synthase 6 (CERS6), transcript variant 1, mRNA [NM_001256126]
A_33_P3419339	0.012978639	down	-1.7165604	GNAI3	Homo sapiens guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3 (GNAI3), mRNA [NM_006496]
A_24_P30557	0.0393597	down	-1.7064204	TBX5	Homo sapiens T-box 5 (TBX5), transcript variant 1, mRNA [NM_000192]
A_23_P102770	0.001511163	down	-1.6089365	NAA20	Homo sapiens N(alpha)-acetyltransferase 20, NatB catalytic subunit (NAA20), transcript variant 1, mRNA [NM_016100]
A_33_P3227467	0.001251055	down	-1.5020599	BNIP2	Homo sapiens BCL2/adenovirus E1B 19kDa interacting protein 2 (BNIP2), mRNA [NM_004330]
A_23_P95790	0.003289918	down	-2.117317	ITLN1	Homo sapiens intelectin 1 (galactofuranose binding) (ITLN1), mRNA [NM_017625]
A_23_P54000	1.21E-04	down	-1.8880471	SNX6	Homo sapiens sorting nexin 6 (SNX6), transcript variant 1, mRNA [NM_021249]
A_23_P121141	0.001822983	down	-1.5799463	ASTE1	Homo sapiens asteroid homolog 1 (Drosophila) (ASTE1), transcript variant 2, mRNA [NM_014065]
A_23_P139820	0.00516304	down	-1.70274	SLC11A2	Homo sapiens solute carrier family 11 (proton-coupled divalent metal ion transporter), member 2 (SLC11A2), transcript variant 4, mRNA [NM_000617]
A_23_P250994	2.32E-04	down	-1.8665607	ANAPC10	Homo sapiens anaphase promoting complex subunit 10 (ANAPC10), transcript variant 2, mRNA [NM_014885]
A_23_P61406	0.04888047	down	-2.033715	SHC3	Homo sapiens SHC (Src homology 2 domain containing) transforming protein 3 (SHC3), mRNA [NM_016848]
A_33_P3255209	0.002314515	down	-1.6319745	MGAT5	Homo sapiens mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetylglucosaminyltransferase (MGAT5), mRNA [NM_002410]
A_23_P55688	0.002265448	down	-1.6673322	ZNF416	Homo sapiens zinc finger protein 416 (ZNF416), mRNA [NM_017879]
A_23_P258321	0.00396163	down	-1.5947367	MRPS17	Homo sapiens mitochondrial ribosomal protein S17 (MRPS17), mRNA [NM_015969]
A_33_P3224745	0.005036973	down	-1.5705292	PLA2G15	Homo sapiens phospholipase A2, group XV (PLA2G15), mRNA [NM_012320]
A_23_P202750	5.73E-04	down	-1.7936065	C11orf54	Homo sapiens chromosome 11 open reading frame 54 (C11orf54), transcript variant 4, mRNA [NM_014039]
A_24_P89971	3.94E-04	down	-1.7253305	SURF4	Homo sapiens surfieit 4 (SURF4), transcript variant 1, mRNA [NM_033161]
A_33_P3227666	0.00247197	down	-1.5410994	AGGF1	Homo sapiens angiogenic factor with G patch and FHA domains 1 (AGGF1), mRNA [NM_018046]
A_33_P3406004	0.002164749	down	-1.9748396	YBEY	Homo sapiens ybeY metalloproteinase (putative) (YBEY), transcript variant 1, mRNA [NM_058181]
A_23_P114929	0.002381834	down	-1.6493914	MPC2	Homo sapiens mitochondrial pyruvate carrier 2 (MPC2), transcript variant 2, mRNA [NM_015415]
A_24_P110831	0.03061153	down	-1.5731493	ANO1	anoctamin 1, calcium activated chloride channel [Source:HGNC Symbol;Acc:HGNC:21625] [ENST00000316296]
A_23_P85392	3.32E-04	down	-1.7349374	RER1	Homo sapiens retention in endoplasmic reticulum sorting receptor 1 (RER1), mRNA [NM_007033]
A_32_P163125	0.001193664	down	-1.7101803	SGMS1	Homo sapiens sphingomyelin synthase 1 (SGMS1), mRNA [NM_147156]
A_33_P3230249	0.016531749	down	-2.0582128	CSMD1	CUB and Sushi multiple domains 1 [Source:HGNC Symbol;Acc:HGNC:14026] [ENST00000523387]
A_23_P7325	0.002668637	down	-1.6325765	BST1	Homo sapiens bone marrow stromal cell antigen 1 (BST1), mRNA [NM_004334]
A_33_P3415957	0.003754854	down	-1.5184451	GTF2A2	Homo sapiens general transcription factor IIA, 2, 12kDa (GTF2A2), mRNA [NM_004492]
A_33_P3301174	5.88E-05	down	-2.1124854	TMED2	Homo sapiens transmembrane emp24 domain trafficking protein 2 (TMED2), mRNA [NM_006815]
A_24_P107859	0.002778872	down	-1.901695	SPRED1	Homo sapiens sprouty-related, EVH1 domain containing 1 (SPRED1), mRNA [NM_152594]
A_33_P3832857	0.00320031	down	-1.6118141	HAUS2	Homo sapiens HAUS augmin-like complex, subunit 2 (HAUS2), transcript variant 1, mRNA [NM_018097]
A_33_P3363341	0.011195331	down	-1.831359	TMEM212	Homo sapiens transmembrane protein 212 (TMEM212), mRNA [NM_001164436]
A_23_P346982	0.020888366	down	-1.5507116	DTWD2	Homo sapiens DTW domain containing 2 (DTWD2), mRNA [NM_173666]
A_23_P53288	0.001202014	down	-1.6641836	CNPY2	Homo sapiens canopy FGF signaling regulator 2 (CNPY2), transcript variant 1, mRNA [NM_014255]
A_32_P87531	0.002773027	down	-1.9414492	DNAH14	Homo sapiens dynein, axonemal, heavy chain 14 (DNAH14), transcript variant 2, mRNA [NM_001145154]
A_24_P175059	0.001139205	down	-1.8303434	ATG5	Homo sapiens autophagy related 5 (ATG5), transcript variant 1, mRNA [NM_004849]
A_32_P59486	8.15E-04	down	-1.807587	SDHD	Homo sapiens succinate dehydrogenase complex, subunit D, integral membrane protein (SDHD), transcript variant 1, mRNA [NM_003002]
A_23_P155441	0.00121427	down	-1.9041133	RFT1	Homo sapiens RFT1 homolog (S. cerevisiae) (RFT1), mRNA [NM_052859]
A_32_P701268	0.027249906	down	-2.1528192	MED12L	Homo sapiens mediator complex subunit 12-like (MED12L), mRNA [NM_053002]
A_23_P433050	0.023886373	down	-1.6820531	RXFP1	Homo sapiens relaxin/insulin-like family peptide receptor 1 (RXFP1), transcript variant 1, mRNA [NM_021634]

A_23_P383435	0.001124822	down	-1.7263495	ZNHIT3	Homo sapiens zinc finger, HIT-type containing 3 (ZNHIT3), transcript variant 1, mRNA [NM_004773]
A_23_P164468	5.48E-05	down	-1.8677746	ADNP2	Homo sapiens ADNP homeobox 2 (ADNP2), mRNA [NM_014913]
A_23_P2143	7.19E-05	down	-1.9449388	SPCS2	Homo sapiens signal peptidase complex subunit 2 homolog (S. cerevisiae) (SPCS2), mRNA [NM_014752]
A_23_P250294	0.003687972	down	-1.6358726	ABHD5	Homo sapiens abhydrolase domain containing 5 (ABHD5), mRNA [NM_016006]
A_23_P354965	0.006912051	down	-2.4363575	SCD5	Homo sapiens stearoyl-CoA desaturase 5 (SCD5), transcript variant 2, mRNA [NM_024906]
A_23_P59654	0.009405485	down	-2.0751677	NPVF	Homo sapiens neuropeptide VF precursor (NPVF), mRNA [NM_022150]
A_33_P3415097	0.004503304	down	-1.7576702	CLCN4	Homo sapiens chloride channel, voltage-sensitive 4 (CLCN4), transcript variant 1, mRNA [NM_001830]
A_23_P22625	3.98E-04	down	-1.8096981	SLC9A6	Homo sapiens solute carrier family 9, subfamily A (NHE6, cation proton antiporter 6), member 6 (SLC9A6), transcript variant 1, mRNA [NM_001042537]
A_33_P3313680	0.034766	down	-2.09723	DGKB	Homo sapiens diacylglycerol kinase, beta 90kDa (DGKB), transcript variant 1, mRNA [NM_004080]
A_22_P00014909	0.011191426	down	-1.7592443	TPBGL	Homo sapiens trophoblast glycoprotein-like (TPBGL), mRNA [NM_001195528]
A_23_P432272	0.038897734	down	-1.5505425	UNC79	Homo sapiens unc-79 homolog (C. elegans) (UNC79), mRNA [NM_020818]
A_33_P3410409	0.00197088	down	-1.5523505	LAMP2	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), transcript variant C, mRNA [NM_001122606]
A_23_P20970	3.34E-04	down	-1.7245519	ATG12	Homo sapiens autophagy related 12 (ATG12), transcript variant 1, mRNA [NM_004707]
A_33_P3283196	0.010553674	down	-1.5801911	SCAF11	PREDICTED: Homo sapiens SR-related CTD-associated factor 11 (SCAF11), transcript variant X3, mRNA [XM_006719692]
A_23_P151870	0.008017151	down	-1.8321462	GLCE	Homo sapiens glucuronic acid epimerase (GLCE), mRNA [NM_015554]
A_24_P81298	8.32E-04	down	-1.7389859	PPP6C	Homo sapiens protein phosphatase 6, catalytic subunit (PPP6C), transcript variant 1, mRNA [NM_001123355]
A_23_P23266	0.002765476	down	-1.6922385	BLZF1	basic leucine zipper nuclear factor 1 [Source:HGNC Symbol;Acc:HGNC:1065] [ENST00000367808]
A_33_P3280694	0.003432091	down	-1.6385882	GSAP	gamma-secretase activating protein [Source:HGNC Symbol;Acc:HGNC:28042] [ENST00000334003]
A_23_P13852	0.001786049	down	-1.6109483	STRAP	Homo sapiens serine/threonine kinase receptor associated protein (STRAP), mRNA [NM_007178]
A_24_P551028	0.001479549	down	-1.8698913	SPOPL	Homo sapiens speckle-type POZ protein-like (SPOPL), mRNA [NM_001001664]
A_24_P56317	0.001295366	down	-1.717725	MBNL2	Homo sapiens muscleblind-like splicing regulator 2 (MBNL2), transcript variant 1, mRNA [NM_144778]
A_23_P167828	2.35E-04	down	-1.7912292	RWDD1	Homo sapiens RWD domain containing 1 (RWDD1), transcript variant 2, mRNA [NM_016104]
A_23_P132644	2.68E-04	down	-1.8577768	NCEH1	Homo sapiens neutral cholesterol ester hydrolase 1 (NCEH1), transcript variant 2, mRNA [NM_020792]
A_23_P160466	0.021639008	down	-1.5513928	SLC19A2	Homo sapiens solute carrier family 19 (thiamine transporter), member 2 (SLC19A2), mRNA [NM_006996]
A_24_P25550	0.036831435	down	-1.9563663	ADH6	Homo sapiens alcohol dehydrogenase 6 (class V) (ADH6), transcript variant 1, mRNA [NM_001102470]
A_23_P8185	2.94E-05	down	-1.7873312	DYNLT1	Homo sapiens dynein, light chain, Tctex-type 1 (DYNLT1), transcript variant 1, mRNA [NM_006519]
A_32_P75902	0.029139804	down	-1.8519226	MEIOB	Homo sapiens meiosis specific with OB domains (MEIOB), transcript variant 2, mRNA [NM_152764]
A_23_P123905	0.001861217	down	-1.6858679	EXOSC3	Homo sapiens exosome component 3 (EXOSC3), transcript variant 1, mRNA [NM_016042]
A_33_P3271490	0.001770756	down	-1.7271414	RBMS1	Homo sapiens RNA binding motif, single stranded interacting protein 1 (RBMS1), transcript variant 1, mRNA [NM_016836]
A_23_P15944	1.81E-04	down	-1.8116887	ELAC1	Homo sapiens elcC ribonuclease Z 1 (ELAC1), mRNA [NM_018696]
A_24_P66528	2.11E-05	down	-2.3328388	SRP9	Homo sapiens signal recognition particle 9kDa (SRP9), transcript variant 2, mRNA [NM_003133]
A_33_P3234635	0.01334534	down	-1.7502116	NOTUM	Homo sapiens notum pectinacylesterase homolog (Drosophila) (NOTUM), mRNA [NM_178493]
A_23_P131737	0.002791767	down	-1.6662403	VPS54	Homo sapiens vacuolar protein sorting 54 homolog (S. cerevisiae) (VPS54), transcript variant 1, mRNA [NM_016516]
A_24_P926631	0.03370079	down	-1.8193353	DNAH8	Homo sapiens dynein, axonemal, heavy chain 8 (DNAH8), mRNA [NM_001206927]
A_24_P251734	0.042590987	down	-2.2339065	FSTL5	Homo sapiens follistatin-like 5 (FSTL5), transcript variant 1, mRNA [NM_020116]
A_23_P97853	0.003780054	down	-1.6367695	TMEM254	Homo sapiens transmembrane protein 254 (TMEM254), transcript variant 1, mRNA [NM_025125]
A_24_P706953	0.0096014	down	-3.3056502	TMEM213	Homo sapiens transmembrane protein 213 (TMEM213), mRNA [NM_001085429]
A_33_P3349521	5.94E-05	down	-1.8295869	SARAF	Homo sapiens store-operated calcium entry-associated regulatory factor (SARAF), transcript variant 1, mRNA [NM_016127]
A_23_P2884	0.0049254	down	-1.6271251	PIGH	Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class H (PIGH), mRNA [NM_004569]
A_24_P81965	0.00307422	down	-2.219143	RAP2A	Homo sapiens RAP2A, member of RAS oncogene family (RAP2A), mRNA [NM_021033]
A_23_P335428	0.039296344	down	-1.5374725	HIBADH	Homo sapiens 3-hydroxyisobutyrate dehydrogenase (HIBADH), mRNA [NM_152740]
A_24_P361006	4.37E-05	down	-2.0324461	NDUFA9	Homo sapiens NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa (NDUFA9), mRNA [NM_005002]
A_33_P3234804	5.89E-04	down	-1.7238595	CBR4	Homo sapiens carbonyl reductase 4 (CBR4), mRNA [NM_032783]
A_33_P3268910	1.93E-04	down	-2.7579825	SPRY1	Homo sapiens sprouty homolog 1, antagonist of FGF signaling (Drosophila) (SPRY1), transcript variant 1, mRNA [NM_001258038]
A_33_P3294578	5.68E-05	down	-2.1004314	PRKCI	Homo sapiens protein kinase C, iota (PRKCI), mRNA [NM_002740]
A_23_P34402	0.005638101	down	-1.5418102	NCSTN	Homo sapiens nicastrin (NCSTN), transcript variant 1, mRNA [NM_015331]
A_24_P89509	8.63E-04	down	-1.9119806	TRMT11	Homo sapiens tRNA methyltransferase 11 homolog (S. cerevisiae) (TRMT11), mRNA [NM_001031712]

A_33_P3407945	6.29E-04	down	-1.7929574	TMEM19	Homo sapiens transmembrane protein 19 (TMEM19), mRNA [NM_018279]
A_33_P3409904	0.002900777	down	-1.7254682	VAMP4	Homo sapiens vesicle-associated membrane protein 4 (VAMP4), transcript variant 1, mRNA [NM_003762]
A_24_P124370	0.010630089	down	-2.6999304	PARVA	Homo sapiens parvin, alpha (PARVA), mRNA [NM_018222]
A_33_P3319401	0.00484861	down	-1.9692936	ARHGAP21	Rho GTPase activating protein 21 [Source:HGNC Symbol;Acc:HGNC:23725] [ENST00000476499]
A_23_P13604	4.25E-04	down	-1.6749791	PEBP1	Homo sapiens phosphatidylethanolamine binding protein 1 (PEBP1), mRNA [NM_002567]
A_23_P109286	0.036642756	down	-1.8856239	GRIK1	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1), transcript variant 1, mRNA [NM_000830]
A_24_P122682	6.29E-04	down	-1.7414218	RAB4A	Homo sapiens RAB4A, member RAS oncogene family (RAB4A), transcript variant 1, mRNA [NM_004578]
A_23_P349083	0.002361779	down	-1.9312419	FCHO2	Homo sapiens FCH domain only 2 (FCHO2), transcript variant 1, mRNA [NM_138782]
A_24_P49190	0.016063826	down	-1.5746081	C17orf58	Homo sapiens chromosome 17 open reading frame 58 (C17orf58), transcript variant 1, mRNA [NM_181655]
A_23_P133375	0.005101232	down	-1.5019879	SLC25A46	Homo sapiens solute carrier family 25, member 46 (SLC25A46), transcript variant 1, mRNA [NM_138773]
A_23_P93750	3.14E-04	down	-1.9130045	LSM5	Homo sapiens LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM5), transcript variant 1, mRNA [NM_012322]
A_23_P43226	0.002674816	down	-1.7540238	KCTD9	Homo sapiens potassium channel tetramerization domain containing 9 (KCTD9), mRNA [NM_017634]
A_23_P92842	6.74E-04	down	-1.7090571	SAR1B	Homo sapiens secretion associated, Ras related GTPase 1B (SAR1B), transcript variant 1, mRNA [NM_001033503]
A_33_P3229196	0.040033747	down	-1.6148714	CD151	Homo sapiens CD151 molecule (Raph blood group) (CD151), transcript variant 1, mRNA [NM_004357]
A_23_P203439	0.00339505	down	-1.9102162	KCNC1	Homo sapiens potassium channel, voltage gated Shaw related subfamily C, member 1 (KCNC1), transcript variant 2, mRNA [NM_004976]
A_32_P162374	4.40E-04	down	-2.0294168	C18orf54	Homo sapiens chromosome 18 open reading frame 54 (C18orf54), transcript variant 3, mRNA [NM_173529]
A_23_P29836	0.004177333	down	-1.7688035	TMEM42	transmembrane protein 42 [Source:HGNC Symbol;Acc:HGNC:28444] [ENST00000477126]
A_33_P3219475	3.73E-04	down	-2.2886386	MSANTD3-TMEFF1	Homo sapiens MSANTD3-TMEFF1 readthrough (MSANTD3-TMEFF1), mRNA [NM_001198812]
A_33_P3258141	3.27E-04	down	-1.6978683	CHUK	Homo sapiens conserved helix-loop-helix ubiquitous kinase (CHUK), mRNA [NM_001278]
A_23_P69908	0.01451961	down	-1.5764856	GLRX	Homo sapiens glutaredoxin (thioltransferase) (GLRX), transcript variant 1, mRNA [NM_002064]
A_23_P370786	0.022407494	down	-1.6298871	OR2L13	Homo sapiens olfactory receptor, family 2, subfamily L, member 13 (OR2L13), mRNA [NM_175911]
A_21_P0013760	0.002840469	down	-1.5112926	CHTF8	Homo sapiens CTF8, chromosome transmission fidelity factor 8 homolog (S. cerevisiae) (CHTF8), transcript variant 1, mRNA [NM_001039690]
A_33_P3353672	9.80E-05	down	-1.7133472	RAB28	Homo sapiens RAB28, member RAS oncogene family (RAB28), transcript variant 2, mRNA [NM_004249]
A_23_P104323	0.006438223	down	-1.8111247	MGMT	Homo sapiens O-6-methylguanine-DNA methyltransferase (MGMT), mRNA [NM_002412]
A_23_P138975	1.74E-04	down	-2.3395662	RBM7	Homo sapiens RNA binding motif protein 7 (RBM7), transcript variant 2, mRNA [NM_016090]
A_33_P3404744	0.005583678	down	-1.6981952	KIAA1958	Homo sapiens KIAA1958 (KIAA1958), transcript variant 1, mRNA [NM_001287036]
A_23_P75255	0.001461875	down	-1.6742811	VPS26A	Homo sapiens vacuolar protein sorting 26 homolog A (S. pombe) (VPS26A), transcript variant 1, mRNA [NM_004896]
A_24_P835500	5.21E-04	down	-1.7959881	ITPR1PL2	Homo sapiens inositol 1,4,5-trisphosphate receptor interacting protein-like 2 (ITPR1PL2), transcript variant 1, mRNA [NM_001034841]
A_23_P304287	0.002210266	down	-1.6763599	PSMC2	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 2 (PSMC2), transcript variant 1, mRNA [NM_002803]
A_33_P3384432	0.001190073	down	-1.7943487	TFDP2	Homo sapiens transcription factor Dp-2 (E2F dimerization partner 2) (TFDP2), transcript variant 1, mRNA [NM_001178138]
A_32_P139229	0.004266121	down	-1.5927664	ZNF543	Homo sapiens zinc finger protein 543 (ZNF543), mRNA [NM_213598]
A_33_P3315223	0.001117391	down	-1.6249282	HNRNPA0	Homo sapiens heterogeneous nuclear ribonucleoprotein A0 (HNRNPA0), mRNA [NM_006805]
A_23_P43326	2.95E-04	down	-1.9219414	SPTLC1	Homo sapiens serine palmitoyltransferase, long chain base subunit 1 (SPTLC1), transcript variant 1, mRNA [NM_006415]
A_23_P56734	0.001916858	down	-1.9974059	HNMT	Homo sapiens histamine N-methyltransferase (HNMT), transcript variant 1, mRNA [NM_006895]
A_23_P145068	0.003583651	down	-1.536054	MTO1	Homo sapiens mitochondrial tRNA translation optimization 1 (MTO1), transcript variant 2, mRNA [NM_012123]
A_23_P80648	0.00139432	down	-1.5447316	MFN1	Homo sapiens mitofusin 1 (MFN1), mRNA [NM_033540]
A_23_P69242	0.004411897	down	-1.5314691	SUMF1	Homo sapiens sulfatase modifying factor 1 (SUMF1), transcript variant 1, mRNA [NM_182760]
A_33_P3310293	0.031337667	down	-1.5558316	PKIG	Homo sapiens protein kinase (cAMP-dependent, catalytic) inhibitor gamma (PKIG), transcript variant 1, mRNA [NM_181805]
A_23_P87678	0.018877946	down	-1.645223	EPYC	Homo sapiens epiphycan (EPYC), mRNA [NM_004950]
A_24_P196528	0.001354618	down	-6.679119	CRB1	Homo sapiens crumbs family member 1, photoreceptor morphogenesis associated (CRB1), transcript variant 1, mRNA [NM_201253]
A_33_P3304528	7.29E-04	down	-1.6946962	SEN1	Homo sapiens SUMO1/sentrin specific peptidase 1 (SEN1), transcript variant 2, mRNA [NM_001267595]
A_24_P37519	0.006583862	down	-1.824488	LZTFL1	Homo sapiens leucine zipper transcription factor-like 1 (LZTFL1), transcript variant 1, mRNA [NM_020347]
A_23_P6891	0.003163812	down	-1.67953	EIF1B	Homo sapiens eukaryotic translation initiation factor 1B (EIF1B), mRNA [NM_005875]
A_23_P153037	2.54E-05	down	-2.2046068	ZNF624	Homo sapiens zinc finger protein 624 (ZNF624), mRNA [NM_020787]
A_33_P3335865	0.003765612	down	-1.7278104	WDR35	Homo sapiens WD repeat domain 35 (WDR35), transcript variant 1, mRNA [NM_001006657]

A_33_P3352098	0.006279284	down	-1.5632437	MS4A7	Homo sapiens membrane-spanning 4-domains, subfamily A, member 7 (MS4A7), transcript variant 1, mRNA [NM_021201]
A_23_P138967	2.53E-04	down	-1.8418657	SDHD	Homo sapiens succinate dehydrogenase complex, subunit D, integral membrane protein (SDHD), transcript variant 1, mRNA [NM_003002]
A_24_P157424	0.008320334	down	-1.5344843	NCBP2	Homo sapiens nuclear cap binding protein subunit 2, 20kDa (NCBP2), transcript variant 1, mRNA [NM_007362]
A_23_P122915	3.72E-04	down	-1.7074968	BRI3	Homo sapiens brain protein I3 (BRI3), transcript variant 1, mRNA [NM_015379]
A_33_P3379371	3.05E-04	down	-1.7769375	RYK	Homo sapiens receptor-like tyrosine kinase (RYK), transcript variant 1, mRNA [NM_001005861]
A_24_P191790	9.21E-05	down	-2.0863082	TMEM33	Homo sapiens transmembrane protein 33 (TMEM33), mRNA [NM_018126]
A_23_P258814	7.44E-04	down	-2.010581	DPH3P1	Homo sapiens diphthamide biosynthesis 3 pseudogene 1 (DPH3P1), mRNA [NM_080750]
A_33_P3299854	1.75E-04	down	-1.711207	NCBP1	Homo sapiens nuclear cap binding protein subunit 1, 80kDa (NCBP1), mRNA [NM_002486]
A_33_P3244951	0.008024991	down	-1.6837314	PDE8A	Homo sapiens phosphodiesterase 8A (PDE8A), transcript variant 3, mRNA [NM_001243137]
A_23_P305692	0.001880963	down	-1.5218437	ELMOD2	Homo sapiens ELMO/CED-12 domain containing 2 (ELMOD2), mRNA [NM_153702]
A_23_P116168	0.002202976	down	-1.6254504	MSANTD4	Homo sapiens Myb/SANT-like DNA-binding domain containing 4 with coiled-coils (MSANTD4), mRNA [NM_032424]
A_24_P47681	0.004999719	down	-1.7929066	CAND1	cullin-associated and neddylation-dissociated 1 [Source:HGNC Symbol;Acc:HGNC:30688] [ENST00000545606]
A_23_P37441	0.001186188	down	-1.6133418	B2M	Homo sapiens beta-2-microglobulin (B2M), mRNA [NM_004048]
A_33_P3249773	4.26E-04	down	-1.7723929	TATDN3	Homo sapiens TatD DNase domain containing 3 (TATDN3), transcript variant 5, mRNA [NM_001146171]
A_24_P148151	0.001439951	down	-1.7942492	TSNAX	Homo sapiens translin-associated factor X (TSNAX), mRNA [NM_005999]
A_23_P32861	6.90E-04	down	-2.147657	NMD3	Homo sapiens NMD3 ribosome export adaptor (NMD3), mRNA [NM_015938]
A_23_P100486	0.016991181	down	-1.5378782	VKORC1	Homo sapiens vitamin K epoxide reductase complex, subunit 1 (VKORC1), transcript variant 2, mRNA [NM_206824]
A_24_P398940	9.81E-05	down	-1.8689371	CASC4	Homo sapiens cancer susceptibility candidate 4 (CASC4), transcript variant 1, mRNA [NM_138423]
A_33_P3303086	0.001115294	down	-1.6091747	HNRNPLL	Homo sapiens heterogeneous nuclear ribonucleoprotein L-like (HNRNPLL), transcript variant 1, mRNA [NM_138394]
A_24_P68031	0.008454227	down	-1.760409	CCDC186	coiled-coil domain containing 186 [Source:HGNC Symbol;Acc:HGNC:24349] [ENST00000369285]
A_24_P942370	2.31E-04	down	-1.8077034	GALNT4	Homo sapiens polypeptide N-acetylgalactosaminyltransferase 4 (GALNT4), mRNA [NM_003774]
A_23_P317105	0.006651953	down	-1.7032167	AKAP10	Homo sapiens A kinase (PRKA) anchor protein 10 (AKAP10), mRNA [NM_007202]
A_23_P382199	5.44E-04	down	-1.7161261	VAPA	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa (VAPA), transcript variant 1, mRNA [NM_003574]
A_23_P24987	1.43E-04	down	-1.9913715	TSPAN31	Homo sapiens tetraspanin 31 (TSPAN31), mRNA [NM_005981]
A_23_P218997	0.004262106	down	-1.6135963	PDCD6	Homo sapiens programmed cell death 6 (PDCD6), transcript variant 1, mRNA [NM_013232]
A_23_P93844	0.010100446	down	-1.5682646	TOMM7	Homo sapiens translocase of outer mitochondrial membrane 7 homolog (yeast) (TOMM7), mRNA [NM_019059]
A_23_P122805	1.09E-04	down	-1.90564	TMEM209	Homo sapiens transmembrane protein 209 (TMEM209), transcript variant 1, mRNA [NM_032842]
A_24_P274615	2.83E-04	down	-2.093341	ARRDC3	Homo sapiens arrestin domain containing 3 (ARRDC3), mRNA [NM_020801]
A_33_P3398897	0.004536681	down	-1.684354	QDPR	Homo sapiens quinoid dihydropteridine reductase (QDPR), mRNA [NM_000320]
A_23_P15182	1.44E-04	down	-1.8270359	ARL2BP	Homo sapiens ADP-ribosylation factor-like 2 binding protein (ARL2BP), mRNA [NM_012106]
A_33_P3231367	0.001264689	down	-1.6531974	ATXN10	Homo sapiens ataxin 10 (ATXN10), transcript variant 1, mRNA [NM_013236]
A_33_P3379886	0.041974314	down	-1.5823529	FGF2	Homo sapiens fibroblast growth factor 2 (basic) (FGF2), mRNA [NM_002006]
A_33_P3413468	0.008657228	down	-2.3430212	EDA2R	Homo sapiens ectodysplasin A2 receptor (EDA2R), transcript variant 3, mRNA [NM_001242310]
A_23_P66593	0.04758803	down	-1.5439106	GFAP	Homo sapiens glial fibrillary acidic protein (GFAP), transcript variant 1, mRNA [NM_002055]
A_33_P3326682	0.007731203	down	-1.5415285	SDHC	Homo sapiens succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa (SDHC), transcript variant 1, mRNA [NM_003001]
A_24_P376556	0.005501547	down	-1.6276994	CYCS	Homo sapiens cytochrome c, somatic (CYCS), mRNA [NM_018947]
A_24_P242820	2.94E-04	down	-2.148289	TSN	Homo sapiens translin (TSN), transcript variant 1, mRNA [NM_004622]
A_33_P3351249	0.002219078	down	-1.6963884	CXCL16	Homo sapiens chemokine (C-X-C motif) ligand 16 (CXCL16), transcript variant 2, mRNA [NM_001100812]
A_24_P87036	0.01439267	down	-1.7337948	ANO1	Homo sapiens anoctamin 1, calcium activated chloride channel (ANO1), transcript variant 1, mRNA [NM_018043]
A_24_P917833	1.01E-04	down	-2.0409207	TMED10	Homo sapiens transmembrane emp24-like trafficking protein 10 (yeast) (TMED10), mRNA [NM_006827]
A_33_P3251538	0.00962	down	-1.5282028	MAPKAP1	Homo sapiens mitogen-activated protein kinase associated protein 1 (MAPKAP1), transcript variant 6, mRNA [NM_001006618]
A_23_P83159	0.003760024	down	-1.5867572	KLHL9	Homo sapiens kelch-like family member 9 (KLHL9), mRNA [NM_018847]
A_33_P3357818	0.00636531	down	-1.9040626	HTR1D	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1D, G protein-coupled (HTR1D), mRNA [NM_000864]
A_23_P35230	0.040774036	down	-1.5615644	CD46	Homo sapiens CD46 molecule, complement regulatory protein (CD46), transcript variant n, mRNA [NM_172350]
A_24_P925664	0.001097446	down	-2.124324	MDM2	Homo sapiens MDM2 proto-oncogene, E3 ubiquitin protein ligase (MDM2), transcript variant 1, mRNA [NM_002392]
A_23_P360769	0.001242135	down	-2.4228709	MAN2A1	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA [NM_002372]
A_23_P357966	4.76E-04	down	-2.1735263	PCMTD1	Homo sapiens protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1 (PCMTD1), transcript variant 1, mRNA [NM_052937]
A_23_P80122	8.27E-05	down	-2.1261196	WRB	Homo sapiens tryptophan rich basic protein (WRB), transcript variant 1, mRNA [NM_004627]

A_23_P4036	0.009217697	down	-1.6420312	TEX2	Homo sapiens testis expressed 2 (TEX2), transcript variant 1, mRNA [NM_018469]
A_23_P112801	0.005607704	down	-1.5134602	CHP1	Homo sapiens calcineurin-like EF-hand protein 1 (CHP1), mRNA [NM_007236]
A_24_P57528	5.84E-04	down	-1.6689044	SLC39A11	Homo sapiens solute carrier family 39, member 11 (SLC39A11), transcript variant 2, mRNA [NM_139177]
A_33_P3271530	0.040048305	down	-1.8951324	PGAP1	Homo sapiens post-GPI attachment to proteins 1 (PGAP1), mRNA [NM_024989]
A_23_P212617	0.003512143	down	-1.6906257	TFRC	Homo sapiens transferrin receptor (TFRC), transcript variant 1, mRNA [NM_003234]
A_24_P303199	0.006575538	down	-1.810774	ARL15	Homo sapiens ADP-ribosylation factor-like 15 (ARL15), mRNA [NM_019087]
A_23_P1552	0.001068989	down	-1.8945161	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_32_P215113	0.021546362	down	-1.7039969	CCDC58	Homo sapiens coiled-coil domain containing 58 (CCDC58), mRNA [NM_001017928]
A_24_P182929	0.001368504	down	-2.4965181	KCNAB1	Homo sapiens potassium channel, voltage gated subfamily A regulatory beta subunit 1 (KCNAB1), transcript variant 2, mRNA [NM_003471]
A_23_P101476	0.03927995	down	-1.5628195	ZNF442	Homo sapiens zinc finger protein 442 (ZNF442), mRNA [NM_030824]
A_23_P149470	0.001208326	down	-1.5257014	NDUFS2	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase) (NDUFS2), transcript variant 1, mRNA [NM_004550]
A_33_P3248272	0.003343949	down	-1.6003419	UBXN8	Homo sapiens UBX domain protein 8 (UBXN8), transcript variant 1, mRNA [NM_005671]
A_23_P110569	0.015310133	down	-1.5237871	TRIM36	Homo sapiens tripartite motif containing 36 (TRIM36), transcript variant 1, mRNA [NM_018700]
A_23_P65870	1.63E-04	down	-1.7947109	FBXO22	Homo sapiens F-box protein 22 (FBXO22), transcript variant 2, mRNA [NM_012170]
A_24_P346604	0.002474222	down	-1.7437782	UBE2W	Homo sapiens ubiquitin-conjugating enzyme E2W (putative) (UBE2W), transcript variant 1, mRNA [NM_001001481]
A_23_P7697	0.003097027	down	-1.5490317	SNX2	Homo sapiens sorting nexin 2 (SNX2), transcript variant 1, mRNA [NM_003100]
A_24_P110983	0.007361343	down	-1.5635461	AKT3	Homo sapiens v-akt murine thymoma viral oncogene homolog 3 (AKT3), transcript variant 1, mRNA [NM_005465]
A_33_P3309929	0.01553299	down	-1.6163961	HDAC3	Homo sapiens histone deacetylase 3 (HDAC3), mRNA [NM_003883]
A_23_P417951	0.018885033	down	-1.6158514	TSPYL5	Homo sapiens TSPY-like 5 (TSPYL5), mRNA [NM_033512]
A_33_P3405839	0.044419542	down	-2.0382423	TPO	Homo sapiens thyroid peroxidase (TPO), transcript variant 5, mRNA [NM_175722]
A_33_P3410459	0.002052857	down	-1.634719	SCARB2	Homo sapiens scavenger receptor class B, member 2 (SCARB2), transcript variant 2, mRNA [NM_001204255]
A_33_P3225937	0.001548738	down	-1.6283135	CRYZL1	Homo sapiens crystallin, zeta (quinone reductase)-like 1 (CRYZL1), mRNA [NM_145858]
A_24_P179351	2.14E-04	down	-1.8481482	TPT1	Homo sapiens tumor protein, translationally-controlled 1 (TPT1), transcript variant 2, mRNA [NM_003295]
A_33_P3272140	6.62E-04	down	-1.6873436	NUP35	Homo sapiens nucleoporin 35kDa (NUP35), transcript variant 4, mRNA [NM_001287585]
A_33_P3622802	3.26E-04	down	-1.7594932	ABI1	Homo sapiens abl-interactor 1 (ABI1), transcript variant 1, mRNA [NM_005470]
A_33_P3387943	0.023102103	down	-1.6082363	GLRB	Homo sapiens glycine receptor, beta (GLRB), transcript variant 1, mRNA [NM_000824]
A_23_P11201	0.003019548	down	-2.126596	GPR34	Homo sapiens G protein-coupled receptor 34 (GPR34), transcript variant 4, mRNA [NM_001097579]
A_23_P64650	0.002764499	down	-1.7992659	TSFM	Homo sapiens Ts translation elongation factor, mitochondrial (TSFM), transcript variant 2, mRNA [NM_005726]
A_32_P126733	0.0038353	down	-2.4340537	NOL4	Homo sapiens nucleolar protein 4 (NOL4), transcript variant 1, mRNA [NM_003787]
A_32_P134007	0.005205266	down	-2.3245986	XKR4	Homo sapiens XK, Kell blood group complex subunit-related family, member 4 (XKR4), mRNA [NM_052898]
A_33_P3278560	0.01604782	down	-1.5973052	ZIK1	Homo sapiens zinc finger protein interacting with K protein 1 (ZIK1), mRNA [NM_001010879]
A_22_P00000640	0.002127457	down	-1.9404231	ACSL4	acyl-CoA synthetase long-chain family member 4 [Source:HGNC Symbol;Acc:HGNC:3571][ENST00000439581]
A_23_P3204	3.46E-04	down	-1.800055	MAPK6	Homo sapiens mitogen-activated protein kinase 6 (MAPK6), mRNA [NM_002748]
A_24_P381494	0.004458564	down	-1.5718544	SLC11A2	Homo sapiens solute carrier family 11 (proton-coupled divalent metal ion transporter), member 2 (SLC11A2), transcript variant 4, mRNA [NM_000617]
A_23_P63751	7.83E-04	down	-1.8204592	PRDX3	Homo sapiens peroxiredoxin 3 (PRDX3), transcript variant 1, mRNA [NM_006793]
A_33_P3297050	5.94E-04	down	-1.7050874	ALG2	Homo sapiens ALG2, alpha-1,3/1,6-mannosyltransferase (ALG2), transcript variant 1, mRNA [NM_033087]
A_32_P216566	0.022531739	down	-1.6263508	RIPPLY2	Homo sapiens ripply transcriptional repressor 2 (RIPPLY2), transcript variant 1, mRNA [NM_001009994]
A_23_P145777	0.003047763	down	-1.5680586	NDUFA4	Homo sapiens NDUFA4, mitochondrial complex associated (NDUFA4), mRNA [NM_002489]
A_33_P3377110	3.10E-04	down	-1.8856499	CYB561D1	Homo sapiens cytochrome b561 family, member D1 (CYB561D1), transcript variant 5, mRNA [NM_001134404]
A_23_P47034	3.02E-05	down	-2.5069463	HHEX	Homo sapiens hematopoietically expressed homeobox (HHEX), mRNA [NM_002729]
A_23_P118150	7.07E-04	down	-2.0589538	ARL6IP1	Homo sapiens ADP-ribosylation factor-like 6 interacting protein 1 (ARL6IP1), mRNA [NM_015161]
A_24_P235305	0.001515262	down	-1.6340066	ZNF706	Homo sapiens zinc finger protein 706 (ZNF706), transcript variant 1, mRNA [NM_001042510]
A_23_P102320	0.001036121	down	-1.6207695	NUP35	Homo sapiens nucleoporin 35kDa (NUP35), transcript variant 1, mRNA [NM_138285]
A_32_P160883	0.001018956	down	-1.6663358	NEDD4	Homo sapiens neural precursor cell expressed, developmentally down-regulated 4, E3 ubiquitin protein ligase (NEDD4), transcript variant 2, mRNA [NM_198400]
A_23_P165727	0.01226835	down	-1.7561021	MSTN	Homo sapiens myostatin (MSTN), mRNA [NM_005259]
A_23_P155103	1.56E-04	down	-1.7792552	ADSL	Homo sapiens adenylosuccinate lyase (ADSL), transcript variant 1, mRNA [NM_000026]

A_23_P39304	0.024396537	down	-1.8535535	PSG9	Homo sapiens pregnancy specific beta-1-glycoprotein 9 (PSG9), transcript variant 1, mRNA [NM_002784]
A_23_P3212	0.002844798	down	-1.7721736	DTWD1	Homo sapiens DTW domain containing 1 (DTWD1), transcript variant 1, mRNA [NM_020234]
A_33_P3226550	0.01905519	down	-1.6383078	SLC4A8	solute carrier family 4, sodium bicarbonate cotransporter, member 8 [Source:HGNC Symbol;Acc:HGNC:11034] [ENST00000547697]
A_33_P3258041	0.005976035	down	-1.5930918	GGPS1	Homo sapiens geranylgeranyl diphosphate synthase 1 (GGPS1), transcript variant 2, mRNA [NM_001037277]
A_24_P942132	0.011769146	down	-1.7629983	TRAPPC6B	Homo sapiens trafficking protein particle complex 6B (TRAPPC6B), transcript variant 1, mRNA [NM_001079537]
A_24_P167496	0.00317253	down	-1.938349	PUS7L	Homo sapiens pseudouridylate synthase 7 homolog (S. cerevisiae)-like (PUS7L), transcript variant 3, mRNA [NM_031292]
A_33_P3215277	0.001816848	down	-1.6916137	TTBK2	Homo sapiens tau tubulin kinase 2 (TTBK2), mRNA [NM_173500]
A_33_P3230324	0.004011296	down	-1.7024627	COPS8	Homo sapiens COP9 signalosome subunit 8 (COPS8), transcript variant 2, mRNA [NM_198189]
A_24_P706752	0.001508217	down	-1.8039997	PLA2G12A	Homo sapiens phospholipase A2, group XIA (PLA2G12A), mRNA [NM_030821]
A_32_P23624	2.53E-04	down	-1.9570737	ABC10	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 10 (ABC10), mRNA [NM_012089]
A_33_P3272165	7.68E-04	down	-1.6204587	NDUFAF6	Homo sapiens NADH dehydrogenase (ubiquinone) complex I, assembly factor 6 (NDUFAF6), mRNA [NM_152416]
A_23_P30956	0.006526831	down	-1.5710809	UFL1	Homo sapiens UFM1-specific ligase 1 (UFL1), mRNA [NM_015323]
A_23_P254816	3.52E-04	down	-1.7615169	TCF15	Homo sapiens transcription factor 15 (basic helix-loop-helix) (TCF15), mRNA [NM_004609]
A_24_P85511	0.012798376	down	-1.7980412	ANKRD26	Homo sapiens ankyrin repeat domain 26 (ANKRD26), transcript variant 2, mRNA [NM_001256053]
A_23_P105833	0.010230918	down	-1.6024265	BIVM	Homo sapiens basic, immunoglobulin-like variable motif containing (BIVM), transcript variant 1, mRNA [NM_017693]
A_23_P395582	0.014457561	down	-1.6707065	ZFP42	ZFP42 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:30949] [ENST00000509524]
A_33_P3370787	0.004539645	down	-1.797047	EPHB2	Homo sapiens EPH receptor B2 (EPHB2), transcript variant 2, mRNA [NM_004442]
A_33_P3362296	0.04302786	down	-2.1089964	KCNGB1	PREDICTED: Homo sapiens potassium voltage-gated channel, subfamily G, member 1 (KCNGB1), transcript variant X2, mRNA [XM_006723786]
A_24_P216654	2.78E-04	down	-1.9913989	SOAT1	Homo sapiens sterol O-acyltransferase 1 (SOAT1), transcript variant 1, mRNA [NM_003101]
A_23_P153286	0.001539692	down	-1.521682	ZNF234	Homo sapiens zinc finger protein 234 (ZNF234), transcript variant 1, mRNA [NM_006630]
A_22_P00001843	0.00370611	down	-1.6794147	ATXN3	Homo sapiens ataxin 3 (ATXN3), transcript variant reference, mRNA [NM_004993]
A_33_P3249748	9.79E-04	down	-1.6656939	THEM6	Homo sapiens thioesterase superfamily member 6 (THEM6), mRNA [NM_016647]
A_23_P215051	0.002073718	down	-1.6668527	ECHDC1	Homo sapiens ethylmalonyl-CoA decarboxylase 1 (ECHDC1), transcript variant 2, mRNA [NM_018479]
A_21_P0000034	1.65E-04	down	-1.8948328	COX11	Homo sapiens COX11 cytochrome c oxidase copper chaperone (COX11), transcript variant 1, mRNA [NM_004375]
A_23_P83278	5.51E-04	down	-1.7304248	CHMP5	Homo sapiens charged multivesicular body protein 5 (CHMP5), transcript variant 1, mRNA [NM_016410]
A_33_P3286302	0.004378244	down	-1.6525289	TNFRSF14	tumor necrosis factor receptor superfamily, member 14 [Source:HGNC Symbol;Acc:HGNC:11912] [ENST00000463835]
A_23_P94636	0.001553763	down	-1.6012605	RC3H2	Homo sapiens ring finger and CCCH-type domains 2 (RC3H2), transcript variant 2, mRNA [NM_018835]
A_33_P3334630	0.042686976	down	-1.9581395	PLP1	proteolipid protein 1 [Source:HGNC Symbol;Acc:HGNC:9086] [ENST00000612423]
A_23_P205768	3.30E-05	down	-1.8294797	ARPP19	Homo sapiens cAMP-regulated phosphoprotein, 19kDa (ARPP19), mRNA [NM_006628]
A_23_P411825	0.01896938	down	-1.6387357	CCDC148	Homo sapiens coiled-coil domain containing 148 (CCDC148), transcript variant 1, mRNA [NM_138803]
A_23_P349882	0.001222714	down	-2.0275705	PDCL	Homo sapiens phosducin-like (PDCL), mRNA [NM_005388]
A_33_P3427102	0.002648013	down	-1.5445924	TTL	Homo sapiens tubulin tyrosine ligase (TTL), mRNA [NM_153712]
A_24_P413669	0.037719324	down	-1.637897	PFKFB2	Homo sapiens 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 (PFKFB2), transcript variant 2, mRNA [NM_001018053]
A_21_P0012273	0.023383196	down	-1.8011936	NBEA	Homo sapiens neurobeachin (NBEA), transcript variant 1, mRNA [NM_015678]
A_23_P32785	2.80E-05	down	-2.111594	C3orf38	Homo sapiens chromosome 3 open reading frame 38 (C3orf38), mRNA [NM_173824]
A_33_P3343690	0.010740972	down	-1.8833408	FDX1	Homo sapiens ferredoxin 1 (FDX1), mRNA [NM_004109]
A_33_P3267665	2.30E-04	down	-2.0239425	ZDHHC2	Homo sapiens zinc finger, DHHC-type containing 2 (ZDHHC2), mRNA [NM_016353]
A_23_P256231	8.81E-04	down	-1.8097931	FBXO30	Homo sapiens F-box protein 30 (FBXO30), mRNA [NM_032145]
A_23_P134854	0.022964567	down	-1.6160622	CLDN23	Homo sapiens claudin 23 (CLDN23), mRNA [NM_194284]
A_33_P3362353	0.006992351	down	-1.620201	ARAF	Homo sapiens A-Raf proto-oncogene, serine/threonine kinase (ARAF), transcript variant 3, mRNA [NM_001256197]
A_23_P207299	3.84E-04	down	-1.7055466	RNFT1	Homo sapiens ring finger protein, transmembrane 1 (RNFT1), mRNA [NM_016125]
A_23_P11331	4.74E-04	down	-1.7763766	TCEAL8	Homo sapiens transcription elongation factor A (SII)-like 8 (TCEAL8), transcript variant 1, mRNA [NM_153333]
A_23_P74928	3.58E-05	down	-1.8999053	MR1	Homo sapiens major histocompatibility complex, class I-related (MR1), transcript variant 1, mRNA [NM_001531]
A_24_P285501	0.007820386	down	-1.6954265	UBR3	Homo sapiens ubiquitin protein ligase E3 component n-recognin 3 (putative) (UBR3), mRNA [NM_172070]
A_23_P510	0.014752493	down	-1.6842496	PLD5	Homo sapiens phospholipase D family, member 5 (PLD5), transcript variant 1, mRNA [NM_152666]
A_33_P3405334	0.005189512	down	-1.7229068	GM2A	Homo sapiens GM2 ganglioside activator (GM2A), transcript variant 1, mRNA [NM_000405]

A_23_P151280	2.63E-04	down	-1.7785529	COX14	Homo sapiens COX14 cytochrome c oxidase assembly factor (COX14), transcript variant 1, mRNA [NM_032901]
A_23_P67424	0.007344615	down	-1.8614181	ZNF461	Homo sapiens zinc finger protein 461 (ZNF461), transcript variant 1, mRNA [NM_153257]
A_23_P203773	0.018367196	down	-2.1763554	CCDC34	Homo sapiens coiled-coil domain containing 34 (CCDC34), transcript variant 2, mRNA [NM_080654]
A_22_P00017940	0.010897234	down	-1.6997699	ZG16	zymogen granule protein 16 [Source:HGNC Symbol;Acc:HGNC:30961] [ENST00000400752]
A_33_P3372094	0.025402378	down	-1.5939376	LLGL1	Homo sapiens lethal giant larvae homolog 1 (Drosophila) (LLGL1), mRNA [NM_004140]
A_33_P3269203	0.023176149	down	-1.5423712	SERPINH1	Homo sapiens serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) (SERPINH1), transcript variant 1, mRNA [NM_001207014]
A_23_P81241	1.75E-05	down	-1.9562141	NDFIP1	Homo sapiens Nedd4 family interacting protein 1 (NDFIP1), mRNA [NM_030571]
A_23_P52176	0.001878837	down	-2.0245855	ZNF124	Homo sapiens zinc finger protein 124 (ZNF124), transcript variant 1, mRNA [NM_003431]
A_23_P118749	7.35E-04	down	-1.6990807	DERL2	Homo sapiens derlin 2 (DERL2), mRNA [NM_016041]
A_23_P431319	3.63E-05	down	-1.9052596	YIPF6	Homo sapiens Yip1 domain family, member 6 (YIPF6), transcript variant A, mRNA [NM_173834]
A_24_P288754	0.003965471	down	-1.5713577	PIGA	Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class A (PIGA), transcript variant 1, mRNA [NM_002641]
A_24_P270496	0.030598026	down	-1.6326445	NOVA1	Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), transcript variant 3, mRNA [NM_006491]
A_24_P374652	0.001115011	down	-1.8761884	NUCKS1	Homo sapiens nuclear casein kinase and cyclin-dependent kinase substrate 1 (NUCKS1), mRNA [NM_022731]
A_24_P913339	0.005304498	down	-1.5450386	SLC35F6	Homo sapiens solute carrier family 35, member F6 (SLC35F6), mRNA [NM_017877]
A_33_P3212650	1.04E-04	down	-2.203467	HDHC2	HD domain containing 2 [Source:HGNC Symbol;Acc:HGNC:21078] [ENST00000609477]
A_23_P362824	2.98E-04	down	-1.6990887	CSTF1	Homo sapiens cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa (CSTF1), transcript variant 2, mRNA [NM_001324]
A_23_P134614	0.007797124	down	-1.5281765	COG5	Homo sapiens component of oligomeric golgi complex 5 (COG5), transcript variant 1, mRNA [NM_006348]
A_23_P342091	0.005755601	down	-1.6092463	OARD1	Homo sapiens O-acyl-ADP-ribose deacylase 1 (OARD1), mRNA [NM_145063]
A_33_P3303121	0.008854349	down	-1.6669923	RAP2B	Homo sapiens RAP2B, member of RAS oncogene family (RAP2B), mRNA [NM_002886]
A_23_P250800	0.008137018	down	-1.5214119	ST3GAL6	Homo sapiens ST3 beta-galactoside alpha-2,3-sialyltransferase 6 (ST3GAL6), transcript variant 1, mRNA [NM_006100]
A_33_P3369495	0.014510687	down	-1.8309019	CLDN10	claudin 10 [Source:HGNC Symbol;Acc:HGNC:2033] [ENST00000376855]
A_23_P98402	2.69E-04	down	-1.8552201	SIDT2	Homo sapiens SID1 transmembrane family, member 2 (SIDT2), mRNA [NM_001040455]
A_24_P69379	5.64E-04	down	-1.9955662	CASD1	Homo sapiens CAS1 domain containing 1 (CASD1), mRNA [NM_022900]
A_23_P112311	0.003711101	down	-1.6186464	TRIM32	Homo sapiens tripartite motif containing 32 (TRIM32), transcript variant 1, mRNA [NM_012210]
A_23_P108657	4.39E-04	down	-1.825607	WDSUB1	Homo sapiens WD repeat, sterile alpha motif and U-box domain containing 1 (WDSUB1), transcript variant 3, mRNA [NM_152528]
A_33_P3235640	0.004229005	down	-1.7368567	RBBP5	Homo sapiens retinoblastoma binding protein 5 (RBBP5), transcript variant 3, mRNA [NM_001193273]
A_33_P3260193	0.020504046	down	-1.6240047	C1orf141	Homo sapiens chromosome 1 open reading frame 141 (C1orf141), transcript variant 2, mRNA [NM_001276352]
A_23_P408167	7.38E-04	down	-1.9270542	GPRASP2	Homo sapiens G protein-coupled receptor associated sorting protein 2 (GPRASP2), transcript variant 1, mRNA [NM_001004051]
A_21_P0002428	0.04206996	down	-1.5591985	COX7A2L	cytochrome c oxidase subunit VIIa polypeptide 2 like [Source:HGNC Symbol;Acc:HGNC:2289] [ENST00000423797]
A_33_P3382910	1.14E-04	down	-1.9618094	GIN1	Homo sapiens gypsy retrotransposon integrase 1 (GIN1), mRNA [NM_017676]
A_24_P56194	4.67E-04	down	-1.9451793	CREBL2	Homo sapiens cAMP responsive element binding protein-like 2 (CREBL2), mRNA [NM_001310]
A_23_P45940	2.23E-05	down	-2.0456681	TFB2M	Homo sapiens transcription factor B2, mitochondrial (TFB2M), mRNA [NM_022366]
A_23_P103433	0.001049915	down	-1.8584093	OSCP1	Homo sapiens organic solute carrier partner 1 (OSCP1), transcript variant 1, mRNA [NM_145047]
A_23_P79426	4.99E-04	down	-1.7472321	CAB39	Homo sapiens calcium binding protein 39 (CAB39), transcript variant 1, mRNA [NM_016289]
A_23_P324989	0.035337508	down	-1.9164764	RECQL5	RecQ protein-like 5 [Source:HGNC Symbol;Acc:HGNC:9950] [ENST00000420326]
A_23_P365327	0.021434354	down	-1.6166961	UBE3D	ubiquitin protein ligase E3D [Source:HGNC Symbol;Acc:HGNC:21381] [ENST00000369746]
A_33_P3292064	0.02134616	down	-1.6858953	BPIFC	Homo sapiens cDNA clone IMAGE:4081306, partial cds. [BC062656]
A_23_P62309	0.017779732	down	-1.7118001	AGTR2	Homo sapiens angiotensin II receptor, type 2 (AGTR2), mRNA [NM_000686]
A_24_P319715	2.58E-04	down	-2.0706315	PDIA6	Homo sapiens protein disulfide isomerase family A, member 6 (PDIA6), transcript variant 4, mRNA [NM_005742]
A_24_P175989	2.74E-04	down	-2.095431	VPS29	Homo sapiens vacuolar protein sorting 29 homolog (S. cerevisiae) (VPS29), transcript variant 1, mRNA [NM_016226]
A_24_P202497	2.46E-04	down	-2.0646293	TWSG1	Homo sapiens twisted gastrulation BMP signaling modulator 1 (TWSG1), mRNA [NM_020648]
A_33_P3390918	0.007428757	down	-3.141203	FSD2	Homo sapiens fibronectin type III and SPRY domain containing 2 (FSD2), transcript variant 1, mRNA [NM_001007122]
A_21_P0000137	0.03638618	down	-1.5630118	BEAN1	Homo sapiens brain expressed, associated with NEDD4, 1 (BEAN1), transcript variant 4, mRNA [NM_001197224]
A_21_P0002622	0.019547956	down	-1.6494825	NUP35	nucleoporin 35kDa [Source:HGNC Symbol;Acc:HGNC:29797] [ENST00000472844]
A_33_P3767927	2.06E-05	down	-2.0781527	NR3C1	Homo sapiens nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) (NR3C1), transcript variant 5, mRNA [NM_001018077]

A_33_P3315375	3.37E-04	down	-1.8578913	SLFN11	Homo sapiens schlafen family member 11 (SLFN11), transcript variant 1, mRNA [NM_001104587]
A_23_P62335	0.001761275	down	-1.6833385	TMLHE	Homo sapiens trimethyllysine hydroxylase, epsilon (TMLHE), transcript variant 1, mRNA [NM_018196]
A_32_P404549	0.02962068	down	-1.529238	CCDC39	Homo sapiens coiled-coil domain containing 39 (CCDC39), mRNA [NM_181426]
A_33_P3350164	0.03073394	down	-1.5563034	CCDC178	Homo sapiens coiled-coil domain containing 178 (CCDC178), transcript variant 2, mRNA [NM_198995]
A_33_P3348244	1.34E-04	down	-1.7598394	BRI3	Homo sapiens brain protein I3 (BRI3), transcript variant 1, mRNA [NM_015379]
A_33_P3336652	2.82E-04	down	-1.9988075	NDUFC2	Homo sapiens NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2, 14.5kDa (NDUFC2), transcript variant 2, mRNA [NM_001204054]
A_23_P56798	5.85E-04	down	-1.7834542	ACP1	Homo sapiens acid phosphatase 1, soluble (ACP1), transcript variant 3, mRNA [NM_004300]
A_33_P6601265	0.014682019	down	-1.6825123	HSD17B12	hydroxysteroid (17-beta) dehydrogenase 12 [Source:HGNC Symbol;Acc:HGNC:18646] [ENST00000533358]
A_24_P212074	0.007678373	down	-1.8566226	METTL21C	Homo sapiens methyltransferase like 21C (METTL21C), mRNA [NM_001010977]
A_24_P365767	0.017969994	down	-1.5242349	CYBB	Homo sapiens cytochrome b-245, beta polypeptide (CYBB), mRNA [NM_000397]
A_23_P47322	0.017891873	down	-1.645819	BTG4	Homo sapiens B-cell translocation gene 4 (BTG4), mRNA [NM_017589]
A_33_P3356990	0.04438425	down	-1.7379735	NPIPB3	Homo sapiens nuclear pore complex interacting protein family, member B3 (NPIPB3), mRNA [NM_130464]
A_23_P99360	8.45E-05	down	-2.260688	TRIM13	Homo sapiens tripartite motif containing 13 (TRIM13), transcript variant 3, mRNA [NM_213590]
A_23_P2661	2.74E-04	down	-1.6868333	RAP1B	Homo sapiens RAP1B, member of RAS oncogene family (RAP1B), transcript variant 1, mRNA [NM_015646]
A_23_P326170	6.40E-04	down	-1.7427748	CALM2	Homo sapiens calmodulin 2 (phosphorylase kinase, delta) (CALM2), mRNA [NM_001743]
A_23_P371729	0.008698572	down	-2.3282094	GJA5	Homo sapiens gap junction protein, alpha 5, 40kDa (GJA5), transcript variant A, mRNA [NM_005266]
A_23_P370097	0.004008439	down	-1.6145916	TMEM237	Homo sapiens transmembrane protein 237 (TMEM237), transcript variant 1, mRNA [NM_001044385]
A_24_P50862	0.018445693	down	-1.6595744	QRSL1	glutamyl-tRNA synthase (glutamine-hydrolyzing)-like 1 [Source:HGNC Symbol;Acc:HGNC:21020] [ENST00000369044]
A_33_P3332130	1.63E-05	down	-2.0613256	PGRMC1	Homo sapiens progesterone receptor membrane component 1 (PGRMC1), transcript variant 2, mRNA [NM_001282621]
A_24_P377225	0.022914482	down	-1.5470722	USP46	Homo sapiens ubiquitin specific peptidase 46 (USP46), transcript variant 1, mRNA [NM_022832]
A_33_P3342917	0.00243798	down	-1.6154337	SYNGR2	Homo sapiens synaptogyrin 2 (SYNGR2), mRNA [NM_004710]
A_24_P254177	0.003696689	down	-1.5215285	SMIM7	Homo sapiens small integral membrane protein 7 (SMIM7), transcript variant 2, mRNA [NM_024104]
A_24_P82142	9.82E-04	down	-2.3591993	TCF12	Homo sapiens transcription factor 12 (TCF12), transcript variant 4, mRNA [NM_207038]
A_33_P3221528	4.58E-04	down	-1.7570804	IREB2	Homo sapiens iron-responsive element binding protein 2 (IREB2), mRNA [NM_004136]
A_24_P237389	0.001008406	down	-1.8821689	EIF1AX	Homo sapiens eukaryotic translation initiation factor 1A, X-linked (EIF1AX), mRNA [NM_001412]
A_33_P3233666	0.002685055	down	-1.5400839	RPP30	Homo sapiens ribonuclease P/MRP 30kDa subunit (RPP30), transcript variant 1, mRNA [NM_001104546]
A_33_P3252369	0.00876739	down	-1.6022006	TMEM182	Homo sapiens transmembrane protein 182 (TMEM182), mRNA [NM_144632]
A_33_P3287840	0.036548328	down	-1.6552378	STAM	Homo sapiens signal transducing adaptor molecule (SH3 domain and ITAM motif) 1 (STAM), transcript variant 1, mRNA [NM_003473]
A_23_P5415	0.001205181	down	-1.6676265	NIF3L1	Homo sapiens NIF3 NGG1 interacting factor 3-like 1 (S. cerevisiae) (NIF3L1), transcript variant 2, mRNA [NM_021824]
A_24_P235429	5.91E-05	down	-1.8488148	ABCA1	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 1 (ABCA1), mRNA [NM_005502]
A_23_P43034	1.70E-04	down	-1.8461235	ELP3	Homo sapiens elongator acetyltransferase complex subunit 3 (ELP3), transcript variant 1, mRNA [NM_018091]
A_23_P138139	0.022270817	down	-1.5524535	OMA1	Homo sapiens OMA1 zinc metallopeptidase (OMA1), mRNA [NM_145243]
A_33_P3325502	3.23E-04	down	-2.566102	ARHGAP29	Homo sapiens Rho GTPase activating protein 29 (ARHGAP29), mRNA [NM_004815]
A_33_P3289145	7.85E-04	down	-1.6840631	COPS8	Homo sapiens COP9 signalosome subunit 8 (COPS8), transcript variant 2, mRNA [NM_198189]
A_23_P124733	0.002768219	down	-1.7444592	COQ2	Homo sapiens coenzyme Q2 4-hydroxybenzoate polyprenyltransferase (COQ2), mRNA [NM_015697]
A_19_P00320948	0.002982575	down	-1.62159	FAM200B	family with sequence similarity 200, member B [Source:HGNC Symbol;Acc:HGNC:27740] [ENST00000507992]
A_23_P347048	8.45E-05	down	-1.9632102	SGPP1	Homo sapiens sphingosine-1-phosphate phosphatase 1 (SGPP1), mRNA [NM_030791]
A_33_P3269899	0.001206549	down	-1.7554632	RECK	Homo sapiens reversion-inducing-cysteine-rich protein with kazal motifs (RECK), mRNA [NM_021111]
A_23_P333218	0.002556916	down	-1.5121377	ERGIC1	Homo sapiens endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1 (ERGIC1), mRNA [NM_001031711]
A_23_P154962	9.01E-04	down	-1.9216952	RIMBP3	Homo sapiens RIMS binding protein 3 (RIMBP3), mRNA [NM_015672]
A_23_P157283	0.002456628	down	-1.6300474	TMEM243	Homo sapiens transmembrane protein 243, mitochondrial (TMEM243), mRNA [NM_024315]
A_23_P255785	7.92E-05	down	-1.9494549	NCK1	Homo sapiens NCK adaptor protein 1 (NCK1), transcript variant 1, mRNA [NM_006153]
A_33_P3271445	0.007548898	down	-1.5313268	COL4A3BP	Homo sapiens collagen, type IV, alpha 3 (Goodpasture antigen) binding protein (COL4A3BP), transcript variant 3, mRNA [NM_001130105]
A_23_P18123	0.014388791	down	-2.4247594	NLGN1	Homo sapiens neuroligin 1 (NLGN1), mRNA [NM_014932]
A_23_P206022	0.048511844	down	-1.5317967	ITGA11	Homo sapiens integrin, alpha 11 (ITGA11), mRNA [NM_001004439]
A_23_P334263	0.006047309	down	-1.501893	SENP8	Homo sapiens SUMO/sentrin specific peptidase family member 8 (SENP8), transcript variant 2, mRNA [NM_145204]

A_24_P80776	0.012946952	down	-1.8376551	SMIM13	Homo sapiens small integral membrane protein 13 (SMIM13), mRNA [NM_001135575]
A_33_P3361831	0.04806852	down	-1.7382873	FRG2C	Homo sapiens FSHD region gene 2 family, member C (FRG2C), mRNA [NM_001124759]
A_23_P50250	0.013646038	down	-1.9036855	CKM	Homo sapiens creatine kinase, muscle (CKM), mRNA [NM_001824]
A_33_P3391211	0.026127698	down	-1.7493619	RAB12	Homo sapiens RAB12, member RAS oncogene family (RAB12), mRNA [NM_001025300]
A_24_P233944	8.57E-04	down	-1.7187927	CEPT1	Homo sapiens choline/ethanolamine phosphotransferase 1 (CEPT1), transcript variant 2, mRNA [NM_001007794]
A_33_P3269166	0.011072896	down	-1.7644902	NALCN	sodium leak channel, non-selective [Source:HGNC Symbol;Acc:HGNC:19082] [ENST00000467264]
A_33_P3322353	2.94E-05	down	-2.5980313	CAPZA2	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA [NM_006136]
A_23_P257668	0.016369829	down	-1.9915662	TTC26	Homo sapiens tetratricopeptide repeat domain 26 (TTC26), transcript variant 1, mRNA [NM_024926]
A_23_P9152	0.001889147	down	-1.5293903	RCL1	Homo sapiens RNA terminal phosphate cyclase-like 1 (RCL1), transcript variant 1, mRNA [NM_005772]
A_23_P211748	5.75E-04	down	-1.6685042	GTF2E1	Homo sapiens general transcription factor IIE, polypeptide 1, alpha 56kDa (GTF2E1), mRNA [NM_005513]
A_33_P3405168	0.001522057	down	-1.7325058	MMAA	Homo sapiens methylmalonic aciduria (cobalamin deficiency) cblA type (MMAA), mRNA [NM_172250]
A_24_P319354	4.42E-04	down	-1.9053473	SUMO1	Homo sapiens small ubiquitin-like modifier 1 (SUMO1), transcript variant 2, mRNA [NM_001005781]
A_23_P26994	0.03999101	down	-1.7468534	GNGT2	Homo sapiens guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 2 (GNGT2), transcript variant 1, mRNA [NM_031498]
A_21_P0000147	0.006454529	down	-1.562317	PGM3	Homo sapiens phosphoglucomutase 3 (PGM3), transcript variant 4, mRNA [NM_001199919]
A_23_P65455	7.99E-04	down	-1.738065	HAUS4	Homo sapiens HAUS augmin-like complex, subunit 4 (HAUS4), transcript variant 2, mRNA [NM_017815]
A_33_P3414574	2.82E-04	down	-1.7827575	DNAJA2	Homo sapiens DnaJ (Hsp40) homolog, subfamily A, member 2 (DNAJA2), mRNA [NM_005880]
A_23_P31085	9.67E-04	down	-1.6565734	CCDC28A	Homo sapiens coiled-coil domain containing 28A (CCDC28A), mRNA [NM_015439]
A_33_P3211604	3.57E-04	down	-1.6604459	RAP1B	Homo sapiens RAP1B, member of RAS oncogene family (RAP1B), transcript variant 1, mRNA [NM_015646]
A_23_P89030	3.57E-04	down	-1.8805307	C16orf95	Homo sapiens chromosome 16 open reading frame 95 (C16orf95), transcript variant 1, mRNA [NM_001195124]
A_24_P346587	3.28E-04	down	-1.8711189	MTFR1	Homo sapiens mitochondrial fission regulator 1 (MTFR1), transcript variant 1, mRNA [NM_014637]
A_23_P153945	4.39E-04	down	-1.7198783	GTDC1	Homo sapiens glycosyltransferase-like domain containing 1 (GTDC1), transcript variant 1, mRNA [NM_001006636]
A_33_P3214635	9.05E-04	down	-1.9125829	FECH	Homo sapiens ferrochelatase (FECH), transcript variant 1, mRNA [NM_001012515]
A_23_P257201	0.003040674	down	-1.8489763	RNF146	Homo sapiens ring finger protein 146 (RNF146), transcript variant 2, mRNA [NM_030963]
A_23_P98057	4.85E-04	down	-1.8747008	ZNF32	Homo sapiens zinc finger protein 32 (ZNF32), transcript variant 2, mRNA [NM_001005368]
A_33_P3222105	4.45E-05	down	-1.9722223	EIF1AX	Homo sapiens eukaryotic translation initiation factor 1A, X-linked (EIF1AX), mRNA [NM_001412]
A_24_P406060	0.001719297	down	-1.8456844	RNF144B	Homo sapiens ring finger protein 144B (RNF144B), mRNA [NM_182757]
A_23_P121250	0.003402273	down	-1.7350926	EIF4A2	Homo sapiens eukaryotic translation initiation factor 4A2 (EIF4A2), mRNA [NM_001967]
A_33_P3365735	0.045076717	down	-1.5916892	THBS2	Homo sapiens thrombospondin 2 (THBS2), mRNA [NM_003247]
A_23_P203900	0.007763772	down	-1.6444126	SCARB1	Homo sapiens scavenger receptor class B, member 1 (SCARB1), transcript variant 1, mRNA [NM_005505]
A_23_P69791	0.001821484	down	-1.7553245	AP1AR	Homo sapiens adaptor-related protein complex 1 associated regulatory protein (AP1AR), transcript variant 1, mRNA [NM_018569]
A_23_P129014	0.001254451	down	-1.8270482	EFCAB11	Homo sapiens EF-hand calcium binding domain 11 (EFCAB11), transcript variant 1, mRNA [NM_145231]
A_23_P148969	0.003413514	down	-1.533994	LRRC40	Homo sapiens leucine rich repeat containing 40 (LRRC40), mRNA [NM_017768]
A_32_P206698	9.16E-04	down	-1.8057294	CKS1B	Homo sapiens CDC28 protein kinase regulatory subunit 1B (CKS1B), transcript variant 1, mRNA [NM_001826]
A_33_P3629247	0.030257022	down	-1.5148776	ANKMY1	Homo sapiens ankyrin repeat and MYND domain containing 1 (ANKMY1), transcript variant 2, mRNA [NM_017844]
A_33_P3367438	0.011342232	down	-2.0646336	NRXN3	Homo sapiens neuroligin 3 (NRXN3), transcript variant 1, mRNA [NM_004796]
A_33_P3636590	8.29E-05	down	-2.2194355	SUCLG2	Homo sapiens succinate-CoA ligase, GDP-forming, beta subunit (SUCLG2), transcript variant 2, mRNA [NM_003848]
A_24_P645765	0.001395013	down	-2.035035	KLHL42	Homo sapiens kelch-like family member 42 (KLHL42), mRNA [NM_020782]
A_23_P2423	3.47E-04	down	-1.7386457	MAGOHB	Homo sapiens mago-nashi homolog B (Drosophila) (MAGOHB), transcript variant 1, mRNA [NM_018048]
A_23_P311150	0.001119738	down	-1.7227618	SPTSSA	Homo sapiens serine palmitoyltransferase, small subunit A (SPTSSA), mRNA [NM_138288]
A_23_P68219	0.04467025	down	-2.0712965	TTN	Homo sapiens titin (TTN), transcript variant novex-3, mRNA [NM_133379]
A_24_P81947	0.002652524	down	-1.6176463	CORO1C	Homo sapiens coronin, actin binding protein, 1C (CORO1C), transcript variant 2, mRNA [NM_014325]
A_32_P66035	0.016322419	down	-1.5670936	TMEM86A	Homo sapiens transmembrane protein 86A (TMEM86A), mRNA [NM_153347]
A_32_P109794	3.53E-04	down	-1.8964908	STYX	Homo sapiens serine/threonine/tyrosine interacting protein (STYX), transcript variant 1, mRNA [NM_145251]
A_24_P940135	1.27E-04	down	-2.1686122	CTBS	Homo sapiens chitinase, di-N-acetyl- (CTBS), mRNA [NM_004388]
A_23_P24948	0.009718823	down	-1.5927143	KCNE3	Homo sapiens potassium channel, voltage gated subfamily E regulatory beta subunit 3 (KCNE3), mRNA [NM_005472]
A_23_P251647	6.36E-04	down	-1.7562912	RFESD	Homo sapiens Rieske (Fe-S) domain containing (RFESD), transcript variant 2, mRNA [NM_173362]

A_33_P3384667	0.009373873	down	-1.9736463	DCAF5	Homo sapiens DDB1 and CUL4 associated factor 5 (DCAF5), transcript variant 4, mRNA [NM_001284208]
A_23_P131375	1.81E-04	down	-1.8647529	PQLC3	Homo sapiens PQ loop repeat containing 3 (PQLC3), transcript variant 1, mRNA [NM_152391]
A_33_P3415500	0.015242731	down	-1.5212489	TRIO	trio Rho guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:12303] [ENST00000620511]
A_32_P90080	5.01E-04	down	-1.7652467	ARMC10	Homo sapiens armadillo repeat containing 10 (ARMC10), transcript variant A, mRNA [NM_031905]
A_33_P3380417	4.74E-04	down	-1.6803051	SLC25A30	Homo sapiens solute carrier family 25, member 30 (SLC25A30), transcript variant 3, mRNA [NM_001286807]
A_23_P324523	0.018485714	down	-1.5111822	IQCK	Homo sapiens IQ motif containing K (IQCK), mRNA [NM_153208]
A_32_P129950	7.56E-04	down	-1.9226111	NHLRC3	Homo sapiens NHL repeat containing 3 (NHLRC3), transcript variant 1, mRNA [NM_001012754]
A_23_P205623	0.003952398	down	-1.7744708	DDHD1	Homo sapiens DDHD domain containing 1 (DDHD1), transcript variant 1, mRNA [NM_030637]
A_33_P3379606	0.021342736	down	-1.9890859	RGS7BP	Homo sapiens regulator of G-protein signaling 7 binding protein (RGS7BP), transcript variant 1, mRNA [NM_001029875]
A_33_P3292854	0.008245426	down	-1.6610624	CALR	Homo sapiens calreticulin (CALR), mRNA [NM_004343]
A_23_P28638	4.16E-04	down	-1.7708161	PLEKHB2	Homo sapiens pleckstrin homology domain containing, family B (evectins) member 2 (PLEKHB2), transcript variant 2, mRNA [NM_017958]
A_23_P54477	4.57E-04	down	-1.7191623	NOP10	Homo sapiens NOP10 ribonucleoprotein (NOP10), mRNA [NM_018648]
A_33_P3358457	0.003827849	down	-2.8127775	GLI2	Homo sapiens GLI family zinc finger 2 (GLI2), mRNA [NM_005270]
A_33_P3404970	0.022492258	down	-1.6083153	OPN5	Homo sapiens opsin 5 (OPN5), transcript variant 1, mRNA [NM_181744]
A_23_P79622	0.006440619	down	-1.7112793	FKBP7	Homo sapiens FK506 binding protein 7 (FKBP7), transcript variant 1, mRNA [NM_181342]
A_23_P385217	2.83E-05	down	-1.9915391	ARL8B	Homo sapiens ADP-ribosylation factor-like 8B (ARL8B), mRNA [NM_018184]
A_23_P17012	9.29E-04	down	-1.7863668	SCRN3	Homo sapiens secernin 3 (SCRN3), transcript variant 1, mRNA [NM_024583]
A_23_P200728	0.003856973	down	-1.7934446	FCGR3A	Homo sapiens Fc fragment of IgG, low affinity IIIa, receptor (CD16a) (FCGR3A), transcript variant 1, mRNA [NM_000569]
A_32_P351037	0.019746605	down	-2.1594405	DNAH7	dynein, axonemal, heavy chain 7 [Source:HGNC Symbol;Acc:HGNC:18661] [ENST00000410072]
A_23_P428729	0.022012634	down	-1.6045175	ZMYM6	zinc finger, MYM-type 6 [Source:HGNC Symbol;Acc:HGNC:13050] [ENST00000460607]
A_33_P3359753	2.48E-04	down	-1.7566594	CCSAP	Homo sapiens centriole, cilia and spindle-associated protein (CCSAP), mRNA [NM_145257]
A_23_P416314	0.00640894	down	-1.5943443	HRASLS5	Homo sapiens HRAS-like suppressor family, member 5 (HRASLS5), transcript variant 1, mRNA [NM_054108]
A_23_P102058	0.020650238	down	-1.6204938	MATN3	Homo sapiens matrilin 3 (MATN3), mRNA [NM_002381]
A_23_P48358	0.002398407	down	-1.6798869	PCCA	Homo sapiens propionyl CoA carboxylase, alpha polypeptide (PCCA), transcript variant 1, mRNA [NM_000282]
A_23_P1206	3.09E-04	down	-1.7780572	RPS24	Homo sapiens ribosomal protein S24 (RPS24), transcript variant c, mRNA [NM_001026]
A_23_P151970	4.42E-04	down	-1.7269121	FEM1B	Homo sapiens fem-1 homolog b (C. elegans) (FEM1B), mRNA [NM_015322]
A_24_P791669	9.51E-06	down	-2.1190581	ZNF879	Homo sapiens zinc finger protein 879 (ZNF879), mRNA [NM_001136116]
A_23_P55544	0.028548118	down	-1.9647281	CCBE1	Homo sapiens collagen and calcium binding EGF domains 1 (CCBE1), mRNA [NM_133459]
A_23_P137931	0.026443597	down	-1.9758279	ADORA3	Homo sapiens adenosine A3 receptor (ADORA3), transcript variant A, mRNA [NM_000677]
A_33_P3299421	1.82E-04	down	-1.9452507	ZNF530	Homo sapiens zinc finger protein 530 (ZNF530), mRNA [NM_020880]
A_32_P194779	0.001041851	down	-1.6737823	ZBTB34	Homo sapiens zinc finger and BTB domain containing 34 (ZBTB34), mRNA [NM_001099270]
A_21_P0006525	0.003781015	down	-2.390459	MID1	PREDICTED: Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1), transcript variant X2, misc_RNA [XR_247299]
A_33_P3399318	0.001360563	down	-1.6619267	GNG12	Homo sapiens guanine nucleotide binding protein (G protein), gamma 12 (GNG12), mRNA [NM_018841]
A_23_P107283	0.002118098	down	-1.8638135	HOXB2	Homo sapiens homeobox B2 (HOXB2), mRNA [NM_002145]
A_23_P99292	1.27E-04	down	-3.3809843	RAD51AP1	Homo sapiens RAD51 associated protein 1 (RAD51AP1), transcript variant 2, mRNA [NM_006479]
A_24_P77364	0.00234037	down	-1.5611708	BOLA3	Homo sapiens bolA family member 3 (BOLA3), transcript variant 1, mRNA [NM_212552]
A_33_P3397693	6.75E-05	down	-2.0272934	AGPS	Homo sapiens alkylglycerone phosphate synthase (AGPS), mRNA [NM_003659]
A_23_P115922	3.15E-04	down	-1.7962368	EIF4EBP2	Homo sapiens eukaryotic translation initiation factor 4E binding protein 2 (EIF4EBP2), mRNA [NM_004096]
A_23_P382705	0.001783901	down	-1.6216621	TMTCT2	Homo sapiens transmembrane and tetratricopeptide repeat containing 2 (TMTCT2), mRNA [NM_152588]
A_23_P41487	0.005953468	down	-1.5758512	TBC1D9	Homo sapiens TBC1 domain family, member 9 (with GRAM domain) (TBC1D9), mRNA [NM_015130]
A_23_P371410	0.010049175	down	-1.6312413	PRKACB	Homo sapiens protein kinase, cAMP-dependent, catalytic, beta (PRKACB), transcript variant 3, mRNA [NM_207578]
A_24_P334378	0.023276448	down	-1.6093217	UGT2A3	Homo sapiens UDP glucuronosyltransferase 2 family, polypeptide A3 (UGT2A3), transcript variant 1, mRNA [NM_024743]
A_23_P17021	8.81E-04	down	-1.7140019	SCRN3	Homo sapiens secernin 3 (SCRN3), transcript variant 1, mRNA [NM_024583]
A_33_P3290328	4.02E-04	down	-1.6984904	DCUN1D1	Homo sapiens DCN1, defective in cullin neddylation 1, domain containing 1 (DCUN1D1), mRNA [NM_020640]
A_23_P75430	0.023769872	down	-1.5311791	SMCO4	Homo sapiens single-pass membrane protein with coiled-coil domains 4 (SMCO4), mRNA [NM_020179]
A_32_P480330	0.032392316	down	-1.5900528	EYS	Homo sapiens eyes shut homolog (Drosophila) (EYS), transcript variant 4, mRNA [NM_001292009]
A_33_P3404739	0.010027616	down	-1.624953	C6orf141	PREDICTED: Homo sapiens chromosome 6 open reading frame 141 (C6orf141), transcript variant X2, mRNA [XM_005248851]
A_33_P3295333	0.035677806	down	-1.5848862	CLEC1A	Homo sapiens C-type lectin domain family 1, member A (CLEC1A), transcript variant 4, mRNA [NM_001297750]
A_23_P80200	0.016959231	down	-1.9646131	LRRC74B	Homo sapiens leucine rich repeat containing 74B (LRRC74B), transcript variant 1, mRNA [NM_001291006]

A_32_P43812	8.30E-04	down	-2.2088618	DCUN1D4	Homo sapiens DCN1, defective in cullin neddylation 1, domain containing 4 (DCUN1D4), transcript variant 1, mRNA [NM_001040402]
A_23_P400716	0.027714351	down	-2.4910576	SHE	Homo sapiens Src homology 2 domain containing E (SHE), mRNA [NM_001010846]
A_33_P3247803	4.52E-04	down	-1.8248098	RBM12B	Homo sapiens RNA binding motif protein 12B (RBM12B), mRNA [NM_203390]
A_33_P3297375	0.008087644	down	-1.7673668	CCER1	coiled-coil glutamate-rich protein 1 [Source:HGNC Symbol;Acc:HGNC:28373] [ENST00000358859]
A_24_P322741	4.50E-04	down	-1.6864033	IL10RB	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA [NM_000628]
A_33_P3333826	0.003160917	down	-1.614402	UBE2Q2	Homo sapiens ubiquitin-conjugating enzyme E2Q family member 2 (UBE2Q2), transcript variant 1, mRNA [NM_173469]
A_24_P479551	0.007727915	down	-2.4097478	UBE2QL1	Homo sapiens ubiquitin-conjugating enzyme E2Q family-like 1 (UBE2QL1), mRNA [NM_001145161]
A_33_P3321342	0.002261563	down	-1.5889801	INSIG2	Homo sapiens insulin induced gene 2 (INSIG2), mRNA [NM_016133]
A_24_P140405	0.004954484	down	-1.7538774	ADAMTS3	Homo sapiens ADAM metalloproteinase with thrombospondin type 1 motif, 3 (ADAMTS3), mRNA [NM_014243]
A_33_P3262416	0.009062204	down	-1.7902468	DPH6	Homo sapiens diphthamine biosynthesis 6 (DPH6), transcript variant 2, mRNA [NM_001141972]
A_33_P3441060	0.003801125	down	-1.6638067	TMEM242	Homo sapiens transmembrane protein 242 (TMEM242), mRNA [NM_018452]
A_23_P82206	7.08E-04	down	-1.7851098	ECHDC1	Homo sapiens ethylmalonyl-CoA decarboxylase 1 (ECHDC1), transcript variant 2, mRNA [NM_018479]
A_23_P99642	4.50E-04	down	-1.6955736	SLC7A7	Homo sapiens solute carrier family 7 (amino acid transporter light chain, y+L system), member 7 (SLC7A7), transcript variant 3, mRNA [NM_001126106]
A_23_P83234	0.015863333	down	-1.5284481	ZBTB6	Homo sapiens zinc finger and BTB domain containing 6 (ZBTB6), mRNA [NM_006626]
A_23_P73801	0.002823942	down	-1.6403258	TCEAL1	Homo sapiens transcription elongation factor A (SII)-like 1 (TCEAL1), transcript variant 3, mRNA [NM_001006640]
A_23_P157449	5.89E-04	down	-1.8183293	POLR2K	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa (POLR2K), mRNA [NM_005034]
A_23_P25638	8.49E-04	down	-1.6842477	RNF219	Homo sapiens ring finger protein 219 (RNF219), mRNA [NM_024546]
A_24_P935986	0.009305222	down	-1.7711457	BCAT1	Homo sapiens branched chain amino-acid transaminase 1, cytosolic (BCAT1), transcript variant 1, mRNA [NM_005504]
A_24_P263284	0.042209662	down	-1.5163985	CSMD2	Homo sapiens CUB and Sushi multiple domains 2 (CSMD2), transcript variant 2, mRNA [NM_052896]
A_23_P19592	0.004207373	down	-1.617296	PGM3	Homo sapiens phosphoglucomutase 3 (PGM3), transcript variant 2, mRNA [NM_015599]
A_24_P277807	2.10E-04	down	-1.974499	SNX3	Homo sapiens sorting nexin 3 (SNX3), transcript variant 1, mRNA [NM_003795]
A_32_P85539	2.23E-04	down	-2.0904512	HCFC2	Homo sapiens host cell factor C2 (HCFC2), mRNA [NM_013320]
A_23_P24623	5.34E-04	down	-1.7869898	ELP4	Homo sapiens elongator acetyltransferase complex subunit 4 (ELP4), transcript variant 1, mRNA [NM_019040]
A_23_P134274	0.003060124	down	-1.541639	POP7	Homo sapiens processing of precursor 7, ribonuclease P/MRP subunit (S. cerevisiae) (POP7), mRNA [NM_005837]
A_33_P3568504	0.013597993	down	-1.8160172	PPP1R1C	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 1C (PPP1R1C), transcript variant 1, mRNA [NM_001261424]
A_23_P156826	3.14E-04	down	-2.091105	ADTRP	Homo sapiens androgen-dependent TFPI-regulating protein (ADTRP), transcript variant 2, mRNA [NM_032744]
A_33_P3210875	4.98E-04	down	-2.1967556	ATP7A	Homo sapiens ATPase, Cu++ transporting, alpha polypeptide (ATP7A), transcript variant 1, mRNA [NM_000052]
A_33_P3215457	2.78E-04	down	-2.3835843	MTTP	Homo sapiens microsomal triglyceride transfer protein (MTTP), transcript variant 1, mRNA [NM_000253]
A_33_P3341329	7.98E-04	down	-1.6392387	ZCRB1	Homo sapiens zinc finger CCHC-type and RNA binding motif 1 (ZCRB1), mRNA [NM_033114]
A_33_P3349651	0.002732688	down	-1.7503171	SWAP70	Homo sapiens SWAP switching B-cell complex 70kDa subunit (SWAP70), transcript variant 1, mRNA [NM_015055]
A_32_P224666	0.002372963	down	-1.6695982	CAPZA2	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA [NM_006136]
A_21_P0007201	0.020158239	down	-1.6457882	HSD17B12	hydroxysteroid (17-beta) dehydrogenase 12 [Source:HGNC Symbol;Acc:HGNC:18646] [ENST00000533358]
A_24_P145122	0.01292264	down	-1.7356706	NUCKS1	Homo sapiens nuclear casein kinase and cyclin-dependent kinase substrate 1 (NUCKS1), mRNA [NM_022731]
A_33_P3213432	9.17E-04	down	-1.657861	ARMC10	Homo sapiens armadillo repeat containing 10 (ARMC10), transcript variant A, mRNA [NM_031905]
A_33_P3259507	0.00890381	down	-1.5624187	FBXO10	Homo sapiens F-box protein 10 (FBXO10), mRNA [NM_012166]
A_19_P00812349	0.001248845	down	-1.8239472	ZNF805	Homo sapiens zinc finger protein 805 (ZNF805), transcript variant 1, mRNA [NM_001023563]
A_23_P215931	2.26E-04	down	-1.8376368	LEPROTL1	Homo sapiens leptin receptor overlapping transcript-like 1 (LEPROTL1), transcript variant 1, mRNA [NM_015344]
A_33_P3382498	0.041415486	down	-1.5749893	SIGLEC14	Homo sapiens sialic acid binding Ig-like lectin 14 (SIGLEC14), mRNA [NM_001098612]
A_33_P3380982	0.001936559	down	-1.6420928	TMEM30A	Homo sapiens transmembrane protein 30A (TMEM30A), transcript variant 1, mRNA [NM_018247]
A_23_P56654	0.004492969	down	-1.5539021	MCEE	Homo sapiens methylmalonyl CoA epimerase (MCEE), mRNA [NM_032601]
A_23_P305759	0.010407299	down	-1.6194686	ABHD3	Homo sapiens abhydrolase domain containing 3 (ABHD3), mRNA [NM_138340]
A_32_P351968	9.13E-04	down	-1.9387141	HLA-DMB	Homo sapiens major histocompatibility complex, class II, DM beta (HLA-DMB), mRNA [NM_002118]
A_32_P95914	0.006155727	down	-1.719073	MMS22L	Homo sapiens MMS22-like, DNA repair protein (MMS22L), mRNA [NM_198468]
A_24_P405002	4.87E-06	down	-2.8409011	PDIK1L	Homo sapiens PDLIM1 interacting kinase 1 like (PDIK1L), transcript variant 1, mRNA [NM_152835]
A_23_P169039	0.022345643	down	-1.6596699	SNAI2	Homo sapiens snail family zinc finger 2 (SNAI2), mRNA [NM_003068]
A_33_P3420900	0.026693217	down	-2.239959	PATE2	Homo sapiens prostate and testis expressed 2 (PATE2), mRNA [NM_212555]
A_33_P3305617	0.030837249	down	-1.6651816	SPTSSB	serine palmitoyltransferase, small subunit B [Source:HGNC Symbol;Acc:HGNC:24045] [ENST00000617024]

A_24_P135444	3.15E-04	down	-1.8499061	AMFR	Homo sapiens autocrine motility factor receptor, E3 ubiquitin protein ligase (AMFR), mRNA [NM_001144]
A_33_P3298024	0.011447425	down	-1.519281	ABCC3	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 3 (ABCC3), transcript variant 2, mRNA [NM_001144070]
A_24_P333663	3.71E-04	down	-2.4137716	MAPK6	Homo sapiens mitogen-activated protein kinase 6 (MAPK6), mRNA [NM_002748]
A_23_P77117	0.001218059	down	-2.075237	TM6SF1	Homo sapiens transmembrane 6 superfamily member 1 (TM6SF1), transcript variant 1, mRNA [NM_023003]
A_23_P54357	0.002353583	down	-2.1508605	LDHAL6B	Homo sapiens lactate dehydrogenase A-like 6B (LDHAL6B), mRNA [NM_033195]
A_23_P170587	2.77E-04	down	-1.9579704	SMYD2	Homo sapiens SET and MYND domain containing 2 (SMYD2), mRNA [NM_020197]
A_23_P391725	0.001639585	down	-1.5491451	DR1	Homo sapiens down-regulator of transcription 1, TBP-binding (negative cofactor 2) (DR1), mRNA [NM_001938]
A_33_P3788420	0.013253206	down	-2.7305007	TRABD2B	Homo sapiens TraB domain containing 2B (TRABD2B), mRNA [NM_001194986]
A_23_P205489	0.040373124	down	-1.5994078	SLC7A8	Homo sapiens solute carrier family 7 (amino acid transporter light chain, L system), member 8 (SLC7A8), transcript variant 2, mRNA [NM_182728]
A_33_P3481674	0.012005995	down	-1.9213592	SHISA6	Homo sapiens shisa family member 6 (SHISA6), transcript variant 1, mRNA [NM_0207386]
A_23_P327698	0.00520053	down	-1.5460721	LMBRD2	Homo sapiens LMBR1 domain containing 2 (LMBRD2), mRNA [NM_001007527]
A_33_P3214481	4.03E-04	down	-2.0110424	P4HA1	Homo sapiens prolyl 4-hydroxylase, alpha polypeptide I (P4HA1), transcript variant 3, mRNA [NM_001142595]
A_22_P00011693	0.001578501	down	-1.8572011	PDK3	Homo sapiens pyruvate dehydrogenase kinase, isozyme 3 (PDK3), transcript variant 1, mRNA [NM_001142386]
A_24_P91985	0.006232463	down	-2.9938252	WDR17	Homo sapiens WD repeat domain 17 (WDR17), transcript variant 1, mRNA [NM_170710]
A_23_P156049	3.12E-04	down	-2.112844	HEXB	Homo sapiens hexosaminidase B (beta polypeptide) (HEXB), transcript variant 1, mRNA [NM_000521]
A_23_P43049	4.71E-05	down	-1.9550424	DCTN6	Homo sapiens dynactin 6 (DCTN6), mRNA [NM_006571]
A_24_P78161	0.002033899	down	-1.6386265	PLAA	Homo sapiens phospholipase A2-activating protein (PLAA), mRNA [NM_001031689]
A_23_P136232	0.003428205	down	-1.5129035	IMPAD1	Homo sapiens inositol monophosphatase domain containing 1 (IMPAD1), mRNA [NM_017813]
A_24_P306726	4.75E-04	down	-1.7376595	TPT1	Homo sapiens tumor protein, translationally-controlled 1 (TPT1), transcript variant 2, mRNA [NM_003295]
A_23_P204269	2.52E-04	down	-1.939257	USP15	Homo sapiens ubiquitin specific peptidase 15 (USP15), transcript variant 2, mRNA [NM_006313]
A_24_P328969	1.61E-04	down	-1.9265225	YIPF5	Homo sapiens Yip1 domain family, member 5 (YIPF5), transcript variant 2, mRNA [NM_030799]
A_23_P11507	0.00246315	down	-1.718268	ZZZ3	Homo sapiens zinc finger, ZZ-type containing 3 (ZZZ3), mRNA [NM_015534]
A_33_P3351559	7.20E-04	down	-1.7758094	ETNK1	Homo sapiens ethanolamine kinase 1 (ETNK1), transcript variant 1, mRNA [NM_018638]
A_23_P127533	8.69E-04	down	-1.6212727	DCUN1D5	Homo sapiens DCN1, defective in cullin neddylation 1, domain containing 5 (DCUN1D5), mRNA [NM_032299]
A_23_P47148	0.0396744	down	-1.6784589	NOX4	Homo sapiens NADPH oxidase 4 (NOX4), transcript variant 1, mRNA [NM_016931]
A_23_P394166	1.15E-05	down	-2.2226968	CNOT7	Homo sapiens CCR4-NOT transcription complex, subunit 7 (CNOT7), transcript variant 1, mRNA [NM_013354]
A_33_P3264538	0.010230444	down	-1.7761271	TAB1	Homo sapiens TGF-beta activated kinase 1/MAP3K7 binding protein 1 (TAB1), transcript variant beta, mRNA [NM_153497]
A_21_P0014256	0.04171241	down	-1.7209262	STK32C	serine/threonine kinase 32C [Source:HGNC Symbol;Acc:HGNC:21332] [ENST00000456004]
A_24_P201404	4.07E-04	down	-1.6924033	C11orf54	Homo sapiens chromosome 11 open reading frame 54 (C11orf54), transcript variant 4, mRNA [NM_014039]
A_23_P205336	3.42E-04	down	-1.7861313	GSKIP	Homo sapiens GSK3B interacting protein (GSKIP), transcript variant 2, mRNA [NM_016472]
A_23_P60002	0.011600737	down	-1.5138816	EMC2	Homo sapiens ER membrane protein complex subunit 2 (EMC2), mRNA [NM_014673]
A_23_P320530	0.009416308	down	-1.5881895	ZNF780A	Homo sapiens zinc finger protein 780A (ZNF780A), transcript variant 2, mRNA [NM_001010880]
A_32_P3534	0.042213026	down	-1.7115712	PGPEP1L	Homo sapiens pyroglutamyl-peptidase I-like (PGPEP1L), transcript variant 2, mRNA [NM_001167902]
A_23_P129064	3.82E-04	down	-2.3459637	GATM	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM), mRNA [NM_001482]
A_23_P154938	0.001998787	down	-1.6497636	HIRA	Homo sapiens histone cell cycle regulator (HIRA), mRNA [NM_003325]
A_24_P62860	0.001065194	down	-1.8491652	STAM2	Homo sapiens signal transducing adaptor molecule (SH3 domain and ITAM motif) 2 (STAM2), mRNA [NM_005843]
A_32_P163858	0.022212943	down	-1.8081586	SCD	Homo sapiens stearoyl-CoA desaturase (delta-9-desaturase) (SCD), mRNA [NM_005063]
A_23_P79968	0.007016157	down	-1.7859999	PCSK2	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2), transcript variant 1, mRNA [NM_002594]
A_23_P412508	0.037359197	down	-2.049679	PDZD9	Homo sapiens PDZ domain containing 9 (PDZD9), transcript variant 1, mRNA [NM_173806]
A_23_P128408	6.98E-05	down	-1.8924582	TRIAP1	Homo sapiens TP53 regulated inhibitor of apoptosis 1 (TRIAP1), mRNA [NM_016399]
A_32_P20523	2.19E-05	down	-2.0022347	TIGD2	Homo sapiens tigger transposable element derived 2 (TIGD2), mRNA [NM_145715]
A_23_P200507	5.32E-04	down	-1.9719719	CNIH4	Homo sapiens cornichon family AMPA receptor auxiliary protein 4 (CNIH4), transcript variant 1, mRNA [NM_014184]
A_33_P3365616	1.13E-04	down	-1.9434416	BTF3L4	Homo sapiens basic transcription factor 3-like 4 (BTF3L4), transcript variant 1, mRNA [NM_152265]
A_23_P213678	5.64E-04	down	-1.8532327	PAM	Homo sapiens peptidylglycine alpha-amidating monooxygenase (PAM), transcript variant 1, mRNA [NM_000919]

A_24_P148836	9.90E-04	down	-1.9877906	KLHDC8B	Homo sapiens kelch domain containing 8B (KLHDC8B), mRNA [NM_173546]
A_23_P94533	0.009750995	down	-1.9020908	CTSL	Homo sapiens cathepsin L (CTSL), transcript variant 1, mRNA [NM_001912]
A_23_P397417	0.002062498	down	-1.5560483	CNEP1R1	Homo sapiens CTD nuclear envelope phosphatase 1 regulatory subunit 1 (CNEP1R1), transcript variant 1, mRNA [NM_153261]
A_32_P149536	2.05E-04	down	-1.8029759	SUMO2	Homo sapiens small ubiquitin-like modifier 2 (SUMO2), transcript variant 1, mRNA [NM_006937]
A_23_P72025	0.00265905	down	-1.8045559	SLC25A20	Homo sapiens solute carrier family 25 (carnitine/acylcarnitine translocase), member 20 (SLC25A20), mRNA [NM_000387]
A_33_P3728979	7.28E-04	down	-1.7673004	FAM151B	Homo sapiens family with sequence similarity 151, member B (FAM151B), mRNA [NM_205548]
A_24_P160482	0.01009437	down	-1.7768732	VSTM2A	Homo sapiens V-set and transmembrane domain containing 2A, mRNA (cDNA clone MGC:33530 IMAGE:4820705), complete cds. [BC028404]
A_33_P3269159	0.048216473	down	-1.7805438	NALCN	sodium leak channel, non-selective [Source:HGNC Symbol;Acc:HGNC:19082] [ENST00000470333]
A_33_P3298216	0.0174329	down	-1.6150155	MYO16	Homo sapiens myosin XVI (MYO16), transcript variant 1, mRNA [NM_001198950]
A_24_P243749	0.001191781	down	-2.703534	PDK4	Homo sapiens pyruvate dehydrogenase kinase, isozyme 4 (PDK4), mRNA [NM_002612]
A_24_P277367	0.028859055	down	-2.02177	CXCL5	Homo sapiens chemokine (C-X-C motif) ligand 5 (CXCL5), mRNA [NM_002994]
A_23_P250283	9.13E-05	down	-1.8917539	RAB1A	Homo sapiens RAB1A, member RAS oncogene family (RAB1A), transcript variant 1, mRNA [NM_004161]
A_24_P268160	0.001160704	down	-1.8098649	DRAM2	Homo sapiens DNA-damage regulated autophagy modulator 2 (DRAM2), mRNA [NM_178454]
A_33_P3219651	0.031323534	down	-1.5641878	BMPER	Homo sapiens BMP binding endothelial regulator (BMPER), mRNA [NM_133468]
A_24_P337334	0.002619898	down	-1.6720859	DCTD	Homo sapiens dCMP deaminase (DCTD), transcript variant 1, mRNA [NM_001012732]
A_24_P784765	0.002954988	down	-1.9054285	CD59	Homo sapiens CD59 molecule, complement regulatory protein (CD59), transcript variant 1, mRNA [NM_203330]
A_23_P346953	0.028949143	down	-1.683343	DGKB	Homo sapiens diacylglycerol kinase, beta 90kDa (DGKB), transcript variant 2, mRNA [NM_145695]
A_24_P370471	0.003736021	down	-1.5538656	ATG10	Homo sapiens autophagy related 10 (ATG10), transcript variant 2, mRNA [NM_031482]
A_23_P162846	0.002738906	down	-1.6492122	LAMP1	Homo sapiens lysosomal-associated membrane protein 1 (LAMP1), mRNA [NM_005561]
A_33_P3240263	1.52E-04	down	-1.8176904	POMP	Homo sapiens proteasome maturation protein (POMP), mRNA [NM_015932]
A_32_P204137	0.042694476	down	-1.6426615	GABRA4	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 4 (GABRA4), transcript variant 1, mRNA [NM_000809]
A_23_P162087	2.59E-04	down	-1.8022786	TMEM9B	Homo sapiens TMEM9 domain family, member B (TMEM9B), transcript variant 1, mRNA [NM_020644]
A_23_P323102	0.03947193	down	-1.7223029	PCDHA9	Homo sapiens protocadherin alpha 9 (PCDHA9), transcript variant 2, mRNA [NM_014005]
A_24_P77082	0.009570773	down	-1.7022072	KMO	Homo sapiens kynurenine 3-monooxygenase (kynurenine 3-hydroxylase) (KMO), mRNA [NM_003679]
A_23_P253046	3.14E-04	down	-1.7337542	UGP2	Homo sapiens UDP-glucose pyrophosphorylase 2 (UGP2), transcript variant 1, mRNA [NM_006759]
A_33_P3296940	2.21E-04	down	-1.8700082	FNDC3B	Homo sapiens fibronectin type III domain containing 3B (FNDC3B), transcript variant 1, mRNA [NM_022763]
A_33_P3354267	5.54E-04	down	-1.8056848	AKIRIN1	Homo sapiens akirin 1 (AKIRIN1), transcript variant 1, mRNA [NM_024595]
A_23_P213441	3.47E-04	down	-1.8709276	UTP15	Homo sapiens UTP15, U3 small nucleolar ribonucleoprotein, homolog (S. cerevisiae) (UTP15), transcript variant 1, mRNA [NM_032175]
A_24_P98006	0.029080655	down	-1.5812446	MCHR2	Homo sapiens melanin-concentrating hormone receptor 2 (MCHR2), transcript variant 1, mRNA [NM_001040179]
A_24_P80181	9.02E-04	down	-1.6918068	TMEM127	Homo sapiens transmembrane protein 127 (TMEM127), transcript variant 1, mRNA [NM_017849]
A_23_P48166	3.95E-04	down	-2.1855874	TWF1	Homo sapiens twinfilin actin-binding protein 1 (TWF1), transcript variant 2, mRNA [NM_002822]
A_33_P3417517	0.022978473	down	-1.6162556	BRD8	Homo sapiens bromodomain containing 8 (BRD8), transcript variant 2, mRNA [NM_139199]
A_23_P347059	6.78E-04	down	-1.9659616	MOB1B	Homo sapiens MOB kinase activator 1B (MOB1B), transcript variant 2, mRNA [NM_173468]
A_23_P210330	0.003834942	down	-1.6745673	LGALS1	Homo sapiens lectin, galactoside-binding-like (LGALS1), mRNA [NM_014181]
A_23_P122796	0.00197996	down	-1.9502522	HDCC2	Homo sapiens HD domain containing 2 (HDCC2), mRNA [NM_016063]
A_23_P119778	0.001543427	down	-2.2249634	SLC39A10	Homo sapiens solute carrier family 39 (zinc transporter), member 10 (SLC39A10), transcript variant 2, mRNA [NM_020342]
A_32_P130788	0.002726208	down	-2.240751	SAMD13	Homo sapiens sterile alpha motif domain containing 13 (SAMD13), transcript variant 1, mRNA [NM_001010971]
A_33_P3249574	0.005731065	down	-1.6677952	SCAMP1	Homo sapiens secretory carrier membrane protein 1 (SCAMP1), transcript variant 1, mRNA [NM_004866]
A_33_P3302255	1.58E-04	down	-1.7330031	ITM2B	Homo sapiens integral membrane protein 2B (ITM2B), mRNA [NM_021999]
A_23_P211957	0.006422272	down	-1.6387042	TGFBR2	Homo sapiens transforming growth factor, beta receptor II (70/80kDa) (TGFBR2), transcript variant 1, mRNA [NM_001024847]
A_23_P137427	2.26E-05	down	-1.9964052	ZMPSTE24	Homo sapiens zinc metalloproteinase STE24 (ZMPSTE24), mRNA [NM_005857]
A_23_P17522	0.017382039	down	-1.9554956	NKX2-2	Homo sapiens NK2 homeobox 2 (NKX2-2), mRNA [NM_002509]
A_23_P37265	5.43E-04	down	-1.7507024	AP5M1	Homo sapiens adaptor-related protein complex 5, mu 1 subunit (AP5M1), transcript variant 1, mRNA [NM_018229]
A_33_P3246268	0.02805487	down	-1.5813756	HOXD13	Homo sapiens homeobox D13 (HOXD13), mRNA [NM_000523]
A_23_P51548	0.002680976	down	-1.5581484	MGST3	Homo sapiens microsomal glutathione S-transferase 3 (MGST3), mRNA [NM_004528]
A_23_P251043	0.005201317	down	-3.8458023	SYNDIG1	Homo sapiens synapse differentiation inducing 1 (SYNDIG1), mRNA [NM_024893]
A_33_P3245321	0.003913202	down	-1.7854352	CENPP	Homo sapiens centromere protein P (CENPP), transcript variant 1, mRNA [NM_001012267]

A_24_P72750	4.34E-04	down	-1.6634314	SPIN1	Homo sapiens spindlin 1 (SPIN1), mRNA [NM_006717]
A_23_P76951	1.37E-04	down	-1.8644539	TMX1	Homo sapiens thioredoxin-related transmembrane protein 1 (TMX1), mRNA [NM_030755]
A_23_P25246	0.043292616	down	-1.5611836	AVPR1A	Homo sapiens arginine vasopressin receptor 1A (AVPR1A), mRNA [NM_000706]
A_33_P3418158	0.003308059	down	-1.5229888	SLC2A8	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 8 (SLC2A8), transcript variant 2, mRNA [NM_001271711]
A_23_P20606	4.59E-04	down	-1.9104493	NIPSNAP3A	Homo sapiens nipsnap homolog 3A (C. elegans) (NIPSNAP3A), mRNA [NM_015469]
A_33_P3418130	0.001570728	down	-1.8347131	UPRT	Homo sapiens uracil phosphoribosyltransferase (FUR1) homolog (S. cerevisiae) (UPRT), transcript variant 1, mRNA [NM_145052]
A_33_P3226761	0.02275086	down	-1.6253437	SOX18	Homo sapiens SRY (sex determining region Y)-box 18 (SOX18), mRNA [NM_018419]
A_23_P94412	0.009949699	down	-1.7137792	PDCD1LG2	Homo sapiens programmed cell death 1 ligand 2 (PDCD1LG2), mRNA [NM_025239]
A_33_P3519683	5.20E-04	down	-1.7381281	ZBTB8OS	Homo sapiens zinc finger and BTB domain containing 8 opposite strand (ZBTB8OS), mRNA [NM_178547]
A_23_P312271	0.008783063	down	-1.8708825	TEX26	Homo sapiens testis expressed 26 (TEX26), mRNA [NM_152325]
A_24_P191417	0.003024248	down	-1.7015377	NAB1	Homo sapiens NGFI-A binding protein 1 (EGR1 binding protein 1) (NAB1), mRNA [NM_005966]
A_22_P00005099	0.033641897	down	-1.8167497	SHANK2	SH3 and multiple ankyrin repeat domains 2 [Source:HGNC Symbol;Acc:HGNC:14295] [ENST00000445654]
A_32_P34003	0.019834787	down	-2.142425	FIGN	fidgetin [Source:HGNC Symbol;Acc:HGNC:13285] [ENST00000333129]
A_23_P66525	0.02197199	down	-1.6173234	HS3ST3A1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3A1 [Source:HGNC Symbol;Acc:HGNC:5196] [ENST00000284110]
A_33_P3250178	0.021975204	down	-1.6417052	IQCJ	Homo sapiens IQ motif containing J (IQCJ), transcript variant 2, mRNA [NM_001042706]
A_24_P21266	0.002524668	down	-1.7964162	ERLIN2	Homo sapiens ER lipid raft associated 2 (ERLIN2), transcript variant 2, mRNA [NM_001003790]
A_23_P375147	2.58E-04	down	-1.96061	RC3H2	ring finger and CCH-type domains 2 [Source:HGNC Symbol;Acc:HGNC:21461] [ENST00000373670]
A_23_P87769	0.003438883	down	-1.795821	PARBP	Homo sapiens PARP1 binding protein (PARBP), mRNA [NM_017915]
A_33_P3702364	0.002653247	down	-1.6514839	SNX24	Homo sapiens sorting nexin 24 (SNX24), mRNA [NM_014035]
A_33_P3227320	8.87E-04	down	-1.6995753	MIER3	Homo sapiens mesoderm induction early response 1, family member 3 (MIER3), transcript variant 1, mRNA [NM_001297598]
A_23_P133923	5.08E-04	down	-1.7552497	GPANK1	Homo sapiens G patch domain and ankyrin repeats 1 (GPANK1), transcript variant 2, mRNA [NM_033177]
A_33_P3331451	2.60E-05	down	-2.353906	TGFBR1	Homo sapiens transforming growth factor, beta receptor 1 (TGFBR1), transcript variant 1, mRNA [NM_004612]
A_23_P410040	0.023047173	down	-1.6144099	KCNH7	Homo sapiens potassium channel, voltage gated eag related subfamily H, member 7 (KCNH7), transcript variant 2, mRNA [NM_173162]
A_23_P33759	0.013612638	down	-1.601863	DHRS3	Homo sapiens dehydrogenase/reductase (SDR family) member 3 (DHRS3), mRNA [NM_004753]
A_33_P3340769	0.004635955	down	-1.8181514	ADAM9	Homo sapiens ADAM metalloproteinase domain 9 (ADAM9), transcript variant 1, mRNA [NM_003816]
A_24_P413941	0.001468259	down	-1.728246	C2orf69	Homo sapiens chromosome 2 open reading frame 69 (C2orf69), mRNA [NM_153689]
A_33_P3418681	0.01859166	down	-1.7171893	HCN4	Homo sapiens hyperpolarization activated cyclic nucleotide gated potassium channel 4 (HCN4), mRNA [NM_005477]
A_23_P217609	0.005122451	down	-1.531122	RPL36A	Homo sapiens ribosomal protein L36a (RPL36A), transcript variant 1, mRNA [NM_021029]
A_33_P3223082	3.27E-04	down	-2.0630221	MRPL19	Homo sapiens mitochondrial ribosomal protein L19 (MRPL19), mRNA [NM_014763]
A_32_P97169	0.00874777	down	-1.6421111	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]
A_23_P69958	2.75E-04	down	-1.884052	AP3S1	Homo sapiens adaptor-related protein complex 3, sigma 1 subunit (AP3S1), mRNA [NM_001284]
A_33_P3348884	0.00404848	down	-1.9541903	CCDC141	Homo sapiens coiled-coil domain containing 141 (CCDC141), mRNA [NM_173648]
A_23_P157465	0.004588462	down	-1.5218315	UBXN8	Homo sapiens UBX domain protein 8 (UBXN8), transcript variant 1, mRNA [NM_005671]
A_23_P134008	0.014002874	down	-1.5001519	USP45	ubiquitin specific peptidase 45 [Source:HGNC Symbol;Acc:HGNC:20080] [ENST00000472914]
A_24_P359671	0.02207769	down	-1.6116277	NTNG1	netrin G1 [Source:HGNC Symbol;Acc:HGNC:23319] [ENST00000294649]
A_33_P3290477	0.02337288	down	-1.6627281	ZNF648	Homo sapiens zinc finger protein 648 (ZNF648), mRNA [NM_001009992]
A_33_P3277308	0.011899218	down	-1.8241469	SYT6	Homo sapiens synaptotagmin VI (SYT6), transcript variant 3, mRNA [NM_001270805]
A_23_P259272	0.001466593	down	-1.6129934	WSB2	Homo sapiens WD repeat and SOCS box containing 2 (WSB2), transcript variant 2, mRNA [NM_018639]
A_33_P3825454	0.032802857	down	-1.5714017	LOC284898	PREDICTED: Homo sapiens uncharacterized LOC284898 (LOC284898), misc_RNA [XR_244416]
A_24_P199929	0.001726853	down	-1.6603082	VPS54	Homo sapiens vacuolar protein sorting 54 homolog (S. cerevisiae) (VPS54), transcript variant 1, mRNA [NM_016516]
A_22_P00000843	0.015308529	down	-1.6868899	PBX2	Homo sapiens pre-B-cell leukemia homeobox 2 (PBX2), mRNA [NM_002586]
A_32_P68746	0.002592727	down	-1.6830482	SMU1	Homo sapiens smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans) (SMU1), mRNA [NM_018225]
A_33_P3328426	0.001028277	down	-1.6884029	ANO10	Homo sapiens anoctamin 10 (ANO10), transcript variant 2, mRNA [NM_001204831]
A_23_P356004	0.00835278	down	-2.1261318	KCNIP3	Homo sapiens Kv channel interacting protein 3, calseinilin (KCNIP3), transcript variant 1, mRNA [NM_013434]
A_33_P3368301	0.002361992	down	-1.5707949	BOLA3	Homo sapiens bola family member 3 (BOLA3), transcript variant 1, mRNA [NM_212552]
A_33_P3343785	0.00361085	down	-1.6013706	MGME1	Homo sapiens mitochondrial genome maintenance exonuclease 1 (MGME1), mRNA [NM_052865]
A_19_P00800114	1.97E-04	down	-2.2234135	HIGD1A	Homo sapiens HIG1 hypoxia inducible domain family, member 1A (HIGD1A), transcript variant 1, mRNA [NM_001099668]

A_33_P3670415	0.00700309	down	-1.5393919	NAT8L	Homo sapiens N-acetyltransferase 8-like (GCN5-related, putative) (NAT8L), mRNA [NM_178557]
A_24_P412156	0.04541582	down	-1.5474916	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 2, mRNA [NM_000609]
A_33_P3294252	1.34E-04	down	-1.7812936	ATF1	Homo sapiens activating transcription factor 1 (ATF1), mRNA [NM_005171]
A_32_P160563	0.01177677	down	-1.7299607	OPCML	Homo sapiens opioid binding protein/cell adhesion molecule-like (OPCML), transcript variant 2, mRNA [NM_001012393]
A_33_P3333975	0.004347047	down	-1.5223011	CBWD5	Homo sapiens COBW domain containing 5 (CBWD5), transcript variant 2, mRNA [NM_001286835]
A_24_P328492	9.08E-05	down	-2.2151413	SOC5	Homo sapiens suppressor of cytokine signaling 5 (SOC5), transcript variant 2, mRNA [NM_144949]
A_24_P73943	2.46E-04	down	-1.9826277	COX11	Homo sapiens COX11 cytochrome c oxidase copper chaperone (COX11), transcript variant 1, mRNA [NM_004375]
A_23_P108437	0.002593788	down	-1.6977631	FZD5	Homo sapiens frizzled class receptor 5 (FZD5), mRNA [NM_003468]
A_23_P112554	0.042809084	down	-1.9113239	COL15A1	Homo sapiens collagen, type XV, alpha 1 (COL15A1), mRNA [NM_001855]
A_33_P3402983	0.03563925	down	-1.5961083	HYDIN	Homo sapiens HYDIN, axonemal central pair apparatus protein (HYDIN), transcript variant 1, mRNA [NM_001270974]
A_23_P31116	0.016610442	down	-1.5001353	ACOT13	Homo sapiens acyl-CoA thioesterase 13 (ACOT13), transcript variant 1, mRNA [NM_018473]
A_23_P62840	0.002199432	down	-1.6255087	YRDC	Homo sapiens yrdC N(6)-threonylcarbamoyltransferase domain containing (YRDC), mRNA [NM_024640]
A_24_P200848	0.006629418	down	-1.7204401	SNX13	Homo sapiens sorting nexin 13 (SNX13), mRNA [NM_015132]
A_21_P0000344	0.024962097	down	-2.497473	RPL32	Homo sapiens ribosomal protein L32 (RPL32), transcript variant 3, mRNA [NM_001007074]
A_23_P51202	0.004236649	down	-1.6274071	ZNF436	Homo sapiens zinc finger protein 436 (ZNF436), transcript variant 1, mRNA [NM_001077195]
A_33_P3292896	0.008016332	down	-1.5024694	SFXN5	Homo sapiens sideroflexin 5 (SFXN5), mRNA [NM_144579]
A_23_P115919	0.005307404	down	-1.5855018	PHYH	Homo sapiens phytanoyl-CoA 2-hydroxylase (PHYH), transcript variant 2, mRNA [NM_001037537]
A_23_P145134	0.005449672	down	-1.6373062	FGFR1OP	Homo sapiens FGFR1 oncogene partner (FGFR1OP), transcript variant 1, mRNA [NM_007045]
A_33_P3213997	0.015279937	down	-1.5407106	DHRS4L2	Homo sapiens dehydrogenase/reductase (SDR family) member 4 like 2 (DHRS4L2), transcript variant 3, mRNA [NM_001193636]
A_24_P382489	0.00313841	down	-1.7630185	SLC27A1	solute carrier family 27 (fatty acid transporter), member 1 [Source:HGNC Symbol;Acc:HGNC:10995] [ENST00000594962]
A_33_P3319491	5.69E-04	down	-1.9540504	AZIN1	Homo sapiens antizyme inhibitor 1 (AZIN1), transcript variant 1, mRNA [NM_015878]
A_24_P248863	0.009635516	down	-1.5393914	ZCCHC4	Homo sapiens zinc finger, CCHC domain containing 4 (ZCCHC4), mRNA [NM_024936]
A_23_P35066	9.73E-04	down	-2.0080962	SNX7	Homo sapiens sorting nexin 7 (SNX7), transcript variant 1, mRNA [NM_015976]
A_23_P58489	0.004458879	down	-1.5966058	FASTKD3	Homo sapiens FAST kinase domains 3 (FASTKD3), transcript variant 1, mRNA [NM_024091]
A_24_P463929	0.011942273	down	-1.9344873	SMLR1	Homo sapiens small leucine-rich protein 1 (SMLR1), mRNA [NM_001195597]
A_23_P408108	0.022381818	down	-1.5713933	MTERF1	Homo sapiens mitochondrial transcription termination factor 1 (MTERF1), transcript variant 1, mRNA [NM_006980]
A_23_P38603	0.003906724	down	-1.7615708	KRTAP4-4	Homo sapiens keratin associated protein 4-4 (KRTAP4-4), mRNA [NM_032524]
A_23_P74799	1.18E-04	down	-1.8347023	SLC25A24	Homo sapiens solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 (SLC25A24), transcript variant 2, mRNA [NM_213651]
A_33_P3414912	0.014393929	down	-1.6976713	NPL	Homo sapiens N-acetylneuraminase pyruvate lyase (dihydrodipicolinate synthase) (NPL), transcript variant 3, mRNA [NM_001200056]
A_33_P3254390	0.01872003	down	-1.7379425	CERKL	Homo sapiens ceramide kinase-like (CERKL), transcript variant 3, mRNA [NM_001030312]
A_24_P91916	5.92E-04	down	-1.9917246	NXT2	Homo sapiens nuclear transport factor 2-like export factor 2 (NXT2), transcript variant 1, mRNA [NM_018698]
A_24_P416370	0.013561158	down	-1.5311722	HOXB4	Homo sapiens homeobox B4 (HOXB4), mRNA [NM_024015]
A_24_P124672	0.0015589	down	-1.5865575	DYNLL1	Homo sapiens dynein, light chain, LC8-type 1 (DYNLL1), transcript variant 1, mRNA [NM_001037494]
A_32_P171313	0.001795133	down	-1.7359343	GNB4	Homo sapiens guanine nucleotide binding protein (G protein), beta polypeptide 4 (GNB4), mRNA [NM_021629]
A_32_P67623	0.002339749	down	-1.7116853	FAM120C	Homo sapiens family with sequence similarity 120C (FAM120C), transcript variant 3, mRNA [NM_001300788]
A_24_P159837	0.002166461	down	-1.5695337	ZNF302	Homo sapiens zinc finger protein 302 (ZNF302), transcript variant 15, mRNA [NM_018675]
A_33_P3253440	8.65E-05	down	-2.0258312	PQLC3	Homo sapiens PQ loop repeat containing 3 (PQLC3), transcript variant 1, mRNA [NM_152391]
A_23_P116173	0.018240843	down	-1.6525768	COLCA2	Homo sapiens colorectal cancer associated 2 (COLCA2), transcript variant 3, mRNA [NM_001136105]
A_23_P21618	0.018524988	down	-1.640981	PDZRN3	Homo sapiens PDZ domain containing ring finger 3 (PDZRN3), transcript variant 1, mRNA [NM_015009]
A_33_P3310989	0.006352778	down	-1.6791862	UBAP2L	Homo sapiens ubiquitin associated protein 2-like (UBAP2L), transcript variant 1, mRNA [NM_014847]
A_33_P3309636	3.35E-04	down	-2.3750706	C11orf58	Homo sapiens chromosome 11 open reading frame 58 (C11orf58), mRNA [NM_014267]
A_23_P257945	6.21E-04	down	-1.7524382	HCCS	Homo sapiens holocytochrome c synthase (HCCS), transcript variant 1, mRNA [NM_005333]
A_23_P140170	0.006005826	down	-1.5664449	SEC23A	Homo sapiens Sec23 homolog A (S. cerevisiae) (SEC23A), mRNA [NM_006364]
A_33_P3214879	2.94E-04	down	-1.6510303	KPNA1	Homo sapiens karyopherin alpha 1 (importin alpha 5) (KPNA1), transcript variant 1, mRNA [NM_002264]
A_21_P0014626	4.03E-05	down	-1.8024787	RNF13	Homo sapiens ring finger protein 13 (RNF13), transcript variant 1, mRNA [NM_007282]
A_33_P3287562	1.14E-04	down	-1.8676127	BCAP29	Homo sapiens B-cell receptor-associated protein 29 (BCAP29), transcript variant 2, mRNA [NM_018844]

A_23_P310701	0.021139158	down	-1.6274047	MAP10	Homo sapiens microtubule-associated protein 10 (MAP10), mRNA [NM_019090]
A_33_P3396692	0.001782838	down	-1.631566	SSR1	Homo sapiens signal sequence receptor, alpha (SSR1), transcript variant 1, mRNA [NM_003144]
A_24_P234768	0.011133997	down	-2.9306223	HTR4	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 4, G protein-coupled (HTR4), transcript variant 1, mRNA [NM_001040173]
A_24_P170234	0.028415635	down	-1.5859079	RNF148	Homo sapiens ring finger protein 148 (RNF148), mRNA [NM_198085]
A_33_P3339961	0.001040089	down	-2.3256233	ZBTB8OS	Homo sapiens zinc finger and BTB domain containing 8 opposite strand (ZBTB8OS), mRNA [NM_178547]
A_23_P110961	0.001661499	down	-1.7470102	MPC1	Homo sapiens mitochondrial pyruvate carrier 1 (MPC1), transcript variant 1, mRNA [NM_016098]
A_33_P3333050	0.006303063	down	-1.5908053	SLC9A4	Homo sapiens solute carrier family 9, subfamily A (NHE4, cation proton antiporter 4), member 4 (SLC9A4), mRNA [NM_001011552]
A_23_P48109	0.005208807	down	-1.6161444	NINJ2	Homo sapiens ninjurin 2 (NINJ2), transcript variant 1, mRNA [NM_016533]
A_23_P95029	0.00114039	down	-1.6355526	SNTB1	Homo sapiens syntrophin, beta 1 (dystrophin-associated protein A1, 59kDa, basic component 1) (SNTB1), mRNA [NM_021021]
A_23_P97932	0.002874276	down	-1.5362976	MSRB2	Homo sapiens methionine sulfoxide reductase B2 (MSRB2), mRNA [NM_012228]
A_24_P370096	6.95E-04	down	-1.5565128	ZNF230	Homo sapiens zinc finger protein 230 (ZNF230), mRNA [NM_006300]
A_21_P0000133	0.010061098	down	-1.7730873	C8orf34	Homo sapiens chromosome 8 open reading frame 34 (C8orf34), transcript variant 2, mRNA [NM_001195639]
A_33_P3396270	0.011896301	down	-1.5021304	SLC9A4	Homo sapiens solute carrier family 9, subfamily A (NHE4, cation proton antiporter 4), member 4 (SLC9A4), mRNA [NM_001011552]
A_33_P3302280	0.003614891	down	-1.6735305	PDIK1L	Homo sapiens PDLIM1 interacting kinase 1 like (PDIK1L), transcript variant 3, mRNA [NM_001243533]
A_23_P167276	2.56E-05	down	-2.2959979	PAQR3	Homo sapiens progesterin and adipoQ receptor family member III (PAQR3), mRNA [NM_001040202]
A_33_P3674851	0.00473501	down	-1.5030648	VPS36	Homo sapiens vacuolar protein sorting 36 homolog (S. cerevisiae) (VPS36), transcript variant 3, mRNA [NM_001282169]
A_23_P58036	0.019312864	down	-1.6475468	MCCC1	Homo sapiens methylcrotonoyl-CoA carboxylase 1 (alpha) (MCCC1), transcript variant 1, mRNA [NM_020166]
A_33_P3249185	2.72E-04	down	-1.7130041	SAR1A	secretion associated, Ras related GTPase 1A [Source:HGNC Symbol;Acc:HGNC:10534] [ENST00000373236]
A_23_P204929	0.004069488	down	-1.6785629	AKAP11	Homo sapiens A kinase (PRKA) anchor protein 11 (AKAP11), mRNA [NM_016248]
A_23_P303260	0.001444976	down	-1.6933974	STX7	Homo sapiens syntaxin 7 (STX7), mRNA [NM_003569]
A_23_P53957	3.81E-04	down	-1.7452754	COX16	Homo sapiens COX16 cytochrome c oxidase assembly homolog (S. cerevisiae) (COX16), transcript variant 1, mRNA [NM_016468]
A_23_P213319	0.004661244	down	-1.8284266	ADAMTS6	Homo sapiens ADAM metalloproteinase with thrombospondin type 1 motif, 6 (ADAMTS6), mRNA [NM_197941]
A_32_P216635	0.037950575	down	-1.6695694	KSR2	Homo sapiens kinase suppressor of ras 2 (KSR2), mRNA [NM_173598]
A_32_P81768	3.09E-04	down	-1.7287004	TMEM167A	Homo sapiens transmembrane protein 167A (TMEM167A), mRNA [NM_174909]
A_23_P17490	0.001001443	down	-1.8975345	TMEM230	Homo sapiens transmembrane protein 230 (TMEM230), transcript variant 2, mRNA [NM_001009924]
A_23_P58506	1.96E-04	down	-2.0592136	ELL2	Homo sapiens elongation factor, RNA polymerase II, 2 (ELL2), mRNA [NM_012081]
A_23_P40821	0.001043252	down	-1.9596021	HPS3	Homo sapiens Hermansky-Pudlak syndrome 3 (HPS3), mRNA [NM_032383]
A_23_P91140	0.002073902	down	-1.7855248	PECR	Homo sapiens peroxisomal trans-2-enoyl-CoA reductase (PECR), mRNA [NM_018441]
A_33_P3374463	3.35E-04	down	-1.6130627	MFAP3	Homo sapiens microfibrillar-associated protein 3 (MFAP3), transcript variant 3, mRNA [NM_001242336]
A_33_P3322450	0.003838998	down	-1.9406239	RAB3IP	RAB3A interacting protein [Source:HGNC Symbol;Acc:HGNC:16508] [ENST00000378815]
A_33_P3400653	1.16E-04	down	-1.9847453	BNIP2	BCL2/adenovirus E1B 19kDa interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:1083] [ENST00000267859]
A_24_P124647	0.023643965	down	-1.6184716	SLC17A8	Homo sapiens solute carrier family 17 (vesicular glutamate transporter), member 8 (SLC17A8), transcript variant 1, mRNA [NM_139319]
A_24_P252794	0.001470882	down	-1.9876645	CUL2	Homo sapiens cullin 2 (CUL2), transcript variant 3, mRNA [NM_003591]
A_23_P334246	0.019346772	down	-2.611704	APLF	Homo sapiens aprataxin and PNKP like factor (APLF), mRNA [NM_173545]
A_23_P158096	0.044536926	down	-1.6780975	COL27A1	Homo sapiens collagen, type XXVII, alpha 1 (COL27A1), mRNA [NM_032888]
A_32_P178966	0.021294497	down	-1.5956593	TMEM170B	Homo sapiens transmembrane protein 170B (TMEM170B), mRNA [NM_001100829]
A_24_P453497	0.02410348	down	-1.6239948	RBM20	Homo sapiens RNA binding motif protein 20 (RBM20), mRNA [NM_001134363]
A_33_P3303414	4.09E-04	down	-1.9061805	MAN1A1	Homo sapiens mannosidase, alpha, class 1A, member 1 (MAN1A1), mRNA [NM_005907]
A_23_P150350	0.005679706	down	-1.6384195	C11orf1	Homo sapiens chromosome 11 open reading frame 1 (C11orf1), mRNA [NM_022761]
A_23_P125643	0.006938139	down	-1.6293222	ASB9	Homo sapiens ankryrin repeat and SOCS box containing 9 (ASB9), transcript variant 1, mRNA [NM_001031739]
A_33_P3283684	0.004521326	down	-1.8056054	C7orf31	Homo sapiens chromosome 7 open reading frame 31 (C7orf31), mRNA [NM_138811]
A_24_P66679	0.003764608	down	-1.758632	NAA30	Homo sapiens N(alpha)-acetyltransferase 30, NatC catalytic subunit (NAA30), mRNA [NM_001011713]
A_23_P157109	0.005487248	down	-1.6439184	ADCYAP1R1	Homo sapiens adenylate cyclase activating polypeptide 1 (pituitary) receptor type I (ADCYAP1R1), transcript variant 3, mRNA [NM_001118]
A_23_P142969	0.004921028	down	-1.6579505	ZNF2	Homo sapiens zinc finger protein 2 (ZNF2), transcript variant 1, mRNA [NM_021088]
A_33_P3353547	0.012950652	down	-1.7764597	ZBTB8B	Homo sapiens zinc finger and BTB domain containing 8B (ZBTB8B), mRNA [NM_001145720]
A_33_P3862375	0.014014699	down	-1.5280292	USP45	Homo sapiens ubiquitin specific peptidase 45 (USP45), mRNA [NM_001080481]
A_33_P3313245	0.009196824	down	-1.8445426	AMACR	Homo sapiens alpha-methylacyl-CoA racemase (AMACR), transcript variant 3, mRNA [NM_001167595]

A_24_P262355	0.00186869	down	-1.6458851	PHB	Homo sapiens prohibitin (PHB), transcript variant 2, mRNA [NM_002634]
A_33_P3280729	0.024331523	down	-1.6283009	SHISA9	Homo sapiens shisa family member 9 (SHISA9), transcript variant 1, mRNA [NM_001145204]
A_32_P129968	1.62E-04	down	-1.7517011	ZNF284	zinc finger protein 284 [Source:HGNC Symbol;Acc:HGNC:13078] [ENST00000421176]
A_33_P3369258	4.19E-04	down	-1.8021486	FGFR1OP2	Homo sapiens FGFR1 oncogene partner 2 (FGFR1OP2), transcript variant 3, mRNA [NM_001171888]
A_24_P372223	7.18E-04	down	-1.8212719	MSR1	Homo sapiens macrophage scavenger receptor 1 (MSR1), transcript variant SR-AI, mRNA [NM_138715]
A_23_P122174	6.12E-04	down	-1.940968	XRCC4	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), transcript variant 3, mRNA [NM_022550]
A_19_P00811828	0.015091963	down	-1.6874708	ZNF737	Homo sapiens zinc finger protein 737 (ZNF737), mRNA [NM_001159293]
A_23_P86570	3.86E-04	down	-2.0021577	ANXA7	Homo sapiens annexin A7 (ANXA7), transcript variant 2, mRNA [NM_004034]
A_24_P280333	0.004773647	down	-2.0480423	KRT40	Homo sapiens keratin 40, type I (KRT40), mRNA [NM_182497]
A_24_P943781	0.025587844	down	-1.6528506	CPED1	Homo sapiens cadherin-like and PC-esterase domain containing 1 (CPED1), transcript variant 1, mRNA [NM_024913]
A_23_P41734	7.18E-04	down	-1.7424588	RNF130	Homo sapiens ring finger protein 130 (RNF130), transcript variant 1, mRNA [NM_018434]
A_24_P219114	2.05E-04	down	-2.0386176	SEL1L	Homo sapiens sel-1 suppressor of lin-12-like (C. elegans) (SEL1L), transcript variant 1, mRNA [NM_005065]
A_23_P92154	0.007048929	down	-1.6486152	MBD4	Homo sapiens methyl-CpG binding domain protein 4 (MBD4), transcript variant 1, mRNA [NM_003925]
A_23_P48886	0.001128659	down	-1.7597382	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P78268	1.33E-04	down	-1.8170131	GLOD4	Homo sapiens glyoxalase domain containing 4 (GLOD4), mRNA [NM_016080]
A_23_P136355	0.00248338	down	-1.7266332	HHAT	Homo sapiens hedgehog acyltransferase (HHAT), transcript variant 1, mRNA [NM_018194]
A_24_P98109	4.53E-05	down	-2.417751	SNX10	Homo sapiens sorting nexin 10 (SNX10), transcript variant 2, mRNA [NM_013322]
A_23_P202988	8.62E-05	down	-2.2393563	AASDHPPT	Homo sapiens aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase (AASDHPPT), mRNA [NM_015423]
A_23_P111228	0.00252642	down	-1.8686379	COQ3	Homo sapiens coenzyme Q3 methyltransferase (COQ3), mRNA [NM_017421]
A_23_P166023	3.79E-04	down	-2.0101094	PFDN4	Homo sapiens prefoldin subunit 4 (PFDN4), mRNA [NM_002623]
A_33_P3325009	0.011515392	down	-1.5769842	RGS4	Homo sapiens regulator of G-protein signaling 4, mRNA (cDNA clone MGC:2124 IMAGE:3510260), complete cds. [BC000737]
A_24_P886040	1.41E-04	down	-2.9478772	DCP2	Homo sapiens decapping mRNA 2 (DCP2), transcript variant 1, mRNA [NM_152624]
A_33_P3308055	0.001829779	down	-1.6050516	EIF4E2	Homo sapiens eukaryotic translation initiation factor 4E family member 2 (EIF4E2), transcript variant 2, mRNA [NM_001282958]
A_33_P3281299	0.02061211	down	-1.6362731	PCDHA10	Homo sapiens protocadherin alpha 10 (PCDHA10), transcript variant 2, mRNA [NM_031859]
A_21_P0008099	0.004622083	down	-1.7860972	SLITRK5	SLIT and NTRK-like family, member 5 [Source:HGNC Symbol;Acc:HGNC:20295] [ENST00000325089]
A_23_P72503	0.014049949	down	-1.5460513	KLHL2	Homo sapiens kelch-like family member 2 (KLHL2), transcript variant 1, mRNA [NM_007246]
A_33_P3353712	8.41E-04	down	-1.7281058	RER1	Homo sapiens retention in endoplasmic reticulum sorting receptor 1 (RER1), mRNA [NM_007033]
A_23_P127964	0.001039864	down	-1.6835144	PRCP	Homo sapiens prolylcarboxypeptidase (angiotensinase C) (PRCP), transcript variant 2, mRNA [NM_199418]
A_23_P83028	6.15E-04	down	-1.9256219	RECK	Homo sapiens reversion-inducing-cysteine-rich protein with kazal motifs (RECK), mRNA [NM_021111]
A_21_P0000188	0.04477711	down	-1.7791537	ELF5	Homo sapiens E74-like factor 5 (ets domain transcription factor) (ELF5), transcript variant 2, mRNA [NM_001422]
A_33_P3423230	0.04980061	down	-1.8081158	PCDH19	Homo sapiens protocadherin 19 (PCDH19), transcript variant 3, mRNA [NM_001184880]
A_33_P3405509	0.021137614	down	-1.6349458	MAGEB5	Homo sapiens melanoma antigen family B, 5 (MAGEB5), mRNA [NM_001271752]
A_33_P3387696	0.014437719	down	-2.1188765	TMBIM4	Homo sapiens transmembrane BAX inhibitor motif containing 4 (TMBIM4), transcript variant 1, mRNA [NM_001282606]
A_23_P429581	0.011364863	down	-2.0782053	TMEM67	Homo sapiens transmembrane protein 67 (TMEM67), transcript variant 1, mRNA [NM_153704]
A_23_P202345	0.00559074	down	-1.6009347	ADO	Homo sapiens 2-aminoethanethiol (cysteamine) dioxygenase (ADO), mRNA [NM_032804]
A_24_P46334	2.70E-04	down	-2.147979	SCOC	Homo sapiens short coiled-coil protein (SCOC), transcript variant 4, mRNA [NM_032547]
A_24_P342807	3.39E-04	down	-1.8912207	SLC30A6	Homo sapiens solute carrier family 30 (zinc transporter), member 6 (SLC30A6), transcript variant 2, mRNA [NM_017964]
A_23_P83438	1.60E-04	down	-2.1060796	UBE2Z	Homo sapiens ubiquitin-conjugating enzyme E2Z (UBE2Z), mRNA [NM_023079]
A_33_P3418686	0.012045749	down	-1.7221116	HCN4	Homo sapiens hyperpolarization activated cyclic nucleotide gated potassium channel 4 (HCN4), mRNA [NM_005477]
A_22_P00016976	0.004322866	down	-1.7607062	HSD17B12	hydroxysteroid (17-beta) dehydrogenase 12 [Source:HGNC Symbol;Acc:HGNC:18646] [ENST00000526615]
A_23_P340868	0.031232735	down	-1.5692528	GLRA3	Homo sapiens glycine receptor, alpha 3 (GLRA3), transcript variant 1, mRNA [NM_006529]
A_23_P43613	2.02E-04	down	-1.735975	NDUFB6	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa (NDUFB6), transcript variant 2, mRNA [NM_182739]
A_33_P3423570	3.97E-04	down	-1.9258143	METRNL	Homo sapiens meteorin, glial cell differentiation regulator (METRNL), mRNA [NM_024042]
A_19_P00805548	8.70E-04	down	-1.7245547	BMPRI1A	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRI1A), mRNA [NM_004329]
A_23_P25964	8.78E-04	down	-1.6559473	GALC	Homo sapiens galactosylceramidase (GALC), transcript variant 1, mRNA [NM_000153]
A_33_P3275220	0.013110735	down	-1.7191641	NRK	Homo sapiens Nik related kinase (NRK), mRNA [NM_198465]
A_23_P167493	0.01647895	down	-2.413645	CARTPT	Homo sapiens CART prepropeptide (CARTPT), mRNA [NM_004291]

A_33_P3416563	0.005047622	down	-1.7849251	AIG1	Homo sapiens androgen-induced 1 (AIG1), transcript variant 1, mRNA [NM_016108]
A_33_P3383149	0.016965225	down	-1.6634878	ZCWPW2	zinc finger, CW type with PWWP domain 2 [Source:HGNC Symbol;Acc:HGNC:23574] [ENST00000383768]
A_24_P13024	0.009839582	down	-1.7870971	SLC16A12	Homo sapiens solute carrier family 16, member 12 (SLC16A12), mRNA [NM_213606]
A_33_P3316456	0.009949546	down	-1.6583995	NPL	Homo sapiens N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) (NPL), transcript variant 2, mRNA [NM_001200050]
A_33_P3330353	1.02E-04	down	-1.854522	MOSPD1	Homo sapiens motile sperm domain containing 1 (MOSPD1), mRNA [NM_019556]
A_33_P3254306	0.003461725	down	-1.6671963	FLCN	folliculin [Source:HGNC Symbol;Acc:HGNC:27310] [ENST00000389168]
A_23_P110362	4.64E-05	down	-2.3682425	LAMTOR3	Homo sapiens late endosomal/lysosomal adaptor, MAPK and MTOR activator 3 (LAMTOR3), transcript variant 1, mRNA [NM_021970]
A_23_P50897	5.62E-04	down	-1.8938582	NIFK	Homo sapiens nucleolar protein interacting with the FHA domain of MKI67 (NIFK), mRNA [NM_032390]
A_23_P356717	0.018899094	down	-1.6531912	ANKS1B	Homo sapiens ankyrin repeat and sterile alpha motif domain containing 1B (ANKS1B), transcript variant 2, mRNA [NM_181670]
A_23_P253446	0.020295186	down	-1.8673784	GAP43	Homo sapiens growth associated protein 43 (GAP43), transcript variant 2, mRNA [NM_002045]
A_19_P00326732	0.001080329	down	-1.6650145	SMIM13	Homo sapiens small integral membrane protein 13 (SMIM13), mRNA [NM_001135575]
A_33_P3378047	0.010007577	down	-1.5001185	SESTD1	Homo sapiens SEC14 and spectrin domains 1 (SESTD1), mRNA [NM_178123]
A_24_P217758	0.004867284	down	-1.734069	MFAP3	Homo sapiens microfibrillar-associated protein 3 (MFAP3), transcript variant 3, mRNA [NM_001242336]
A_23_P157580	6.93E-05	down	-2.0741844	SDCBP	Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant 1, mRNA [NM_005625]
A_23_P73721	0.006762864	down	-1.5386976	RRAGB	Homo sapiens Ras-related GTP binding B (RRAGB), transcript variant RAGBI, mRNA [NM_016656]
A_23_P101811	2.19E-04	down	-1.688206	ZNF14	Homo sapiens zinc finger protein 14 (ZNF14), mRNA [NM_021030]
A_23_P377664	1.20E-04	down	-1.7139511	ALS2	Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) (ALS2), transcript variant 2, mRNA [NM_001135745]
A_24_P941988	4.80E-05	down	-2.011526	SPAST	Homo sapiens spastin (SPAST), transcript variant 1, mRNA [NM_014946]
A_33_P3300635	0.02459185	down	-1.5449334	PFKFB2	Homo sapiens 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2 (PFKFB2), transcript variant 1, mRNA [NM_006212]
A_33_P3369371	0.007360374	down	-1.7866849	GPX3	Homo sapiens glutathione peroxidase 3 (plasma) (GPX3), mRNA [NM_002084]
A_23_P502678	0.001991569	down	-1.6630079	TM2D2	Homo sapiens TM2 domain containing 2 (TM2D2), transcript variant 2, mRNA [NM_031940]
A_23_P14804	1.18E-04	down	-1.8363279	TSPAN3	Homo sapiens tetraspanin 3 (TSPAN3), transcript variant 1, mRNA [NM_005724]
A_23_P68167	7.63E-04	down	-2.5005918	CNGA3	Homo sapiens cyclic nucleotide gated channel alpha 3 (CNGA3), transcript variant 1, mRNA [NM_001298]
A_33_P3251144	0.049720954	down	-1.5763326	CDC47L	Homo sapiens cell division cycle associated 7-like (CDC47L), transcript variant 2, mRNA [NM_001127370]
A_32_P27706	0.005431132	down	-1.7053571	AGPS	Homo sapiens alkylglycerone phosphate synthase (AGPS), mRNA [NM_003659]
A_23_P120270	0.004483705	down	-1.54529	MCFD2	Homo sapiens multiple coagulation factor deficiency 2 (MCFD2), transcript variant 1, mRNA [NM_139279]
A_23_P127446	7.10E-04	down	-1.9651989	DPF2	Homo sapiens D4, zinc and double PHD fingers family 2 (DPF2), mRNA [NM_006268]
A_33_P3210965	0.004420342	down	-1.6505116	TCTN1	Homo sapiens tectonic family member 1 (TCTN1), transcript variant 1, mRNA [NM_001082538]
A_23_P84651	7.50E-04	down	-1.6164197	CNBP	Homo sapiens CCHC-type zinc finger, nucleic acid binding protein (CNBP), transcript variant 3, mRNA [NM_003418]
A_33_P3257125	0.009413645	down	-1.8698719	NOTUM	Homo sapiens notum pectinacetyltransferase homolog (Drosophila) (NOTUM), mRNA [NM_178493]
A_24_P120346	0.002118441	down	-1.6330633	NIT2	Homo sapiens nitrilase family, member 2 (NIT2), mRNA [NM_020202]
A_33_P3388815	0.003287997	down	-1.6394666	FPGT	Homo sapiens fucose-1-phosphate guanylyltransferase (FPGT), transcript variant 1, mRNA [NM_003838]
A_23_P146217	0.002265639	down	-1.6326832	BAG4	Homo sapiens BCL2-associated athanogene 4 (BAG4), transcript variant 1, mRNA [NM_004874]
A_33_P3221448	0.005197245	down	-1.6837345	ZNF264	Homo sapiens zinc finger protein 264 (ZNF264), mRNA [NM_003417]
A_23_P346477	0.009370527	down	-1.8105693	KRTAP4-3	Homo sapiens keratin associated protein 4-3 (KRTAP4-3), mRNA [NM_033187]
A_33_P3221443	0.002040193	down	-1.5598543	ZNF254	Homo sapiens zinc finger protein 254 (ZNF254), transcript variant 1, mRNA [NM_001278677]
A_23_P31073	0.00548903	down	-1.8742872	MYB	Homo sapiens v-myb avian myeloblastosis viral oncogene homolog (MYB), transcript variant 2, mRNA [NM_005375]
A_33_P3302220	0.001875439	down	-1.8882065	NR2C1	Homo sapiens nuclear receptor subfamily 2, group C, member 1 (NR2C1), transcript variant 2, mRNA [NM_001032287]
A_24_P362646	4.80E-04	down	-1.8294319	TXNDC9	Homo sapiens thioredoxin domain containing 9 (TXNDC9), mRNA [NM_005783]
A_33_P3318465	9.52E-05	down	-1.8777989	SUMO1	Homo sapiens small ubiquitin-like modifier 1 (SUMO1), transcript variant 1, mRNA [NM_003352]
A_33_P3287939	0.001144288	down	-1.8311557	FAM221A	Homo sapiens family with sequence similarity 221, member A (FAM221A), transcript variant 1, mRNA [NM_199136]
A_23_P34183	0.010605083	down	-2.1195471	XKRY2	Homo sapiens XK, Kell blood group complex subunit-related, Y-linked 2 (XKRY2), mRNA [NM_001002906]
A_24_P242299	0.001605844	down	-1.5626988	ZRANB2	Homo sapiens zinc finger, RAN-binding domain containing 2 (ZRANB2), transcript variant 2, mRNA [NM_005455]
A_23_P86002	0.001220333	down	-1.7066593	TMED5	Homo sapiens transmembrane emp24 protein transport domain containing 5 (TMED5), transcript variant 1, mRNA [NM_016040]
A_23_P146209	2.73E-04	down	-1.9466932	RNF170	Homo sapiens ring finger protein 170 (RNF170), transcript variant 2, mRNA [NM_030954]

A_23_P86100	0.012749972	down	-1.5675443	KLHDC9	Homo sapiens kelch domain containing 9 (KLHDC9), transcript variant 2, mRNA [NM_001007255]
A_33_P3304372	1.63E-04	down	-2.1501877	TMEM144	Homo sapiens transmembrane protein 144 (TMEM144), mRNA [NM_018342]
A_33_P3216227	0.01741038	down	-1.6713259	ITGB1BP1	integrin beta 1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:23927] [ENST00000360635]
A_33_P3400547	1.09E-04	down	-1.8758453	MED21	Homo sapiens mediator complex subunit 21 (MED21), transcript variant 1, mRNA [NM_004264]
A_23_P402187	0.024894217	down	-1.6260039	PKHD1	Homo sapiens polycystic kidney and hepatic disease 1 (autosomal recessive) (PKHD1), transcript variant 1, mRNA [NM_138694]
A_24_P183864	1.42E-04	down	-1.8183795	IMPA1	Homo sapiens inositol(myo)-1(or 4)-monophosphatase 1 (IMPA1), transcript variant 1, mRNA [NM_005536]
A_33_P3233550	0.00227049	down	-1.5369806	RTN4	Homo sapiens reticulon 4 (RTN4), transcript variant 1, mRNA [NM_020532]
A_33_P3383871	9.20E-05	down	-2.0968	FEM1C	Homo sapiens fem-1 homolog c (C. elegans) (FEM1C), mRNA [NM_020177]
A_23_P12572	0.007926339	down	-1.5995742	CASP7	Homo sapiens caspase 7, apoptosis-related cysteine peptidase (CASP7), transcript variant d, mRNA [NM_033338]
A_32_P86067	0.005151278	down	-2.1398375	ZIC1	Homo sapiens Zic family member 1 (ZIC1), mRNA [NM_003412]
A_33_P3291567	0.007329234	down	-1.5425322	TSNARE1	Homo sapiens t-SNARE domain containing 1 (TSNARE1), transcript variant 1, mRNA [NM_145003]
A_23_P42080	7.75E-05	down	-2.1877186	TMEM14A	Homo sapiens transmembrane protein 14A (TMEM14A), mRNA [NM_014051]
A_33_P3375528	0.03145728	down	-1.5311067	MIER3	Homo sapiens mesoderm induction early response 1, family member 3 (MIER3), transcript variant 3, mRNA [NM_152622]
A_24_P712350	0.043583557	down	-1.7095952	CHML	Homo sapiens choroideremia-like (Rab escort protein 2) (CHML), mRNA [NM_001821]
A_24_P268662	0.022277933	down	-1.633488	ABHD10	Homo sapiens abhydrolase domain containing 10 (ABHD10), transcript variant 1, mRNA [NM_018394]
A_23_P386973	0.047262013	down	-1.5681896	TFAP2D	Homo sapiens transcription factor AP-2 delta (activating enhancer binding protein 2 delta) (TFAP2D), mRNA [NM_172238]
A_33_P3237669	0.016433792	down	-1.8928756	CCDC155	Homo sapiens coiled-coil domain containing 155 (CCDC155), mRNA [NM_144688]
A_24_P271363	5.42E-05	down	-1.9342299	CDS2	Homo sapiens CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2 (CDS2), mRNA [NM_003818]
A_23_P208288	8.52E-05	down	-2.0398717	ZNF304	Homo sapiens zinc finger protein 304 (ZNF304), transcript variant 2, mRNA [NM_020657]
A_23_P330301	0.048065692	down	-2.2404575	MMD2	Homo sapiens monocyte to macrophage differentiation-associated 2 (MMD2), transcript variant 2, mRNA [NM_198403]
A_23_P104025	2.92E-05	down	-2.1958847	TSEN15	Homo sapiens TSEN15 tRNA splicing endonuclease subunit (TSEN15), transcript variant 1, mRNA [NM_052965]
A_33_P3221414	0.04474586	down	-1.5332873	NTNG1	netrin G1 [Source:HGNC Symbol;Acc:HGNC:23319] [ENST00000370068]
A_23_P125435	0.005263182	down	-3.342134	GABRB1	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, beta 1 (GABRB1), mRNA [NM_000812]
A_23_P98310	0.003662232	down	-1.5431352	CSTF3	Homo sapiens cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa (CSTF3), transcript variant 1, mRNA [NM_001326]
A_23_P44974	0.002465837	down	-1.5742018	MRPL13	Homo sapiens mitochondrial ribosomal protein L13 (MRPL13), mRNA [NM_014078]
A_33_P3332006	0.002264282	down	-1.5611528	CBX1	Homo sapiens chromobox homolog 1 (CBX1), transcript variant 1, mRNA [NM_006807]
A_33_P3241984	0.012404882	down	-1.5083278	PTPN22	Homo sapiens protein tyrosine phosphatase, non-receptor type 22 (lymphoid) (PTPN22), transcript variant 1, mRNA [NM_015967]
A_23_P91919	5.30E-04	down	-1.7470118	SERP1	Homo sapiens stress-associated endoplasmic reticulum protein 1 (SERP1), mRNA [NM_014445]
A_33_P3383356	0.02337281	down	-1.6297103	GLT8D2	glycosyltransferase 8 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24890] [ENST00000548660]
A_33_P3250845	3.43E-04	down	-1.7608571	NIPA2	Homo sapiens non imprinted in Prader-Willi/Angelman syndrome 2 (NIPA2), transcript variant 5, mRNA [NM_001184889]
A_23_P380965	0.001519089	down	-1.5692157	JKAMP	Homo sapiens JNK1/MAPK8-associated membrane protein (JKAMP), transcript variant 1, mRNA [NM_016475]
A_23_P130304	0.001044927	down	-1.5939643	TXNL4A	thioredoxin-like 4A [Source:HGNC Symbol;Acc:HGNC:30551] [ENST00000585769]
A_33_P3354322	0.004768207	down	-1.6750517	GPX1	Homo sapiens glutathione peroxidase 1 (GPX1), transcript variant 2, mRNA [NM_201397]
A_23_P69188	2.61E-04	down	-1.9260361	DPH3	Homo sapiens diphthamide biosynthesis 3 (DPH3), transcript variant 1, mRNA [NM_206831]
A_23_P205074	0.002954545	down	-1.7239965	SLC46A3	Homo sapiens solute carrier family 46, member 3 (SLC46A3), transcript variant 1, mRNA [NM_181785]
A_23_P343237	5.52E-04	down	-1.7242315	ANGEL2	Homo sapiens angel homolog 2 (Drosophila) (ANGEL2), transcript variant 1, mRNA [NM_144567]
A_33_P3413083	0.002072093	down	-1.5978292	RHEB	Homo sapiens Ras homolog enriched in brain (RHEB), mRNA [NM_005614]
A_24_P397435	0.028255451	down	-1.6752813	SLC6A3	Homo sapiens solute carrier family 6 (neurotransmitter transporter), member 3 (SLC6A3), mRNA [NM_001044]
A_24_P120907	0.00757452	down	-1.6899985	PGM5	Homo sapiens phosphoglucomutase 5 (PGM5), mRNA [NM_021965]
A_33_P3223701	0.019736279	down	-1.6659173	SPATA16	Homo sapiens spermatogenesis associated 16 (SPATA16), mRNA [NM_031955]
A_32_P147078	0.002413655	down	-1.6794612	SLC8A1	Homo sapiens solute carrier family 8 (sodium/calcium exchanger), member 1 (SLC8A1), transcript variant A, mRNA [NM_021097]
A_33_P3310894	0.022328164	down	-1.7143378	KRT40	Homo sapiens keratin 40, type I (KRT40), mRNA [NM_182497]
A_24_P196117	6.63E-04	down	-1.6336492	GTF2H5	Homo sapiens general transcription factor IIH, polypeptide 5 (GTF2H5), mRNA [NM_207118]
A_33_P3310784	0.005408077	down	-1.9797308	TM6SF1	Homo sapiens transmembrane 6 superfamily member 1 (TM6SF1), transcript variant 1, mRNA [NM_023003]
A_23_P333951	0.0026395	down	-1.7210164	DNAH14	Homo sapiens dynein, axonemal, heavy chain 14 (DNAH14), transcript variant 3, mRNA [NM_144989]
A_32_P116857	0.005483112	down	-3.3491127	PDE11A	Homo sapiens phosphodiesterase 11A (PDE11A), transcript variant 4, mRNA [NM_016953]
A_24_P415845	0.001840483	down	-1.9896199	LIG4	Homo sapiens ligase IV, DNA, ATP-dependent (LIG4), transcript variant 1, mRNA [NM_002312]

A_23_P140928	0.032299213	down	-1.7207956	TMC7	Homo sapiens transmembrane channel-like 7 (TMC7), transcript variant 1, mRNA [NM_024847]
A_23_P84334	2.25E-04	down	-1.8772845	TMEM39A	Homo sapiens transmembrane protein 39A (TMEM39A), transcript variant 1, mRNA [NM_018266]
A_23_P44505	0.001583474	down	-1.680607	KLF11	Homo sapiens Kruppel-like factor 11 (KLF11), transcript variant 1, mRNA [NM_003597]
A_24_P408740	0.00349379	down	-1.6783899	CMC1	Homo sapiens C-x(9)-C motif containing 1 (CMC1), mRNA [NM_182523]
A_23_P93543	1.83E-04	down	-1.8802541	PEX7	Homo sapiens peroxisomal biogenesis factor 7 (PEX7), mRNA [NM_000288]
A_33_P3299892	0.007834066	down	-1.5633105	UQCRH	Homo sapiens ubiquinol-cytochrome c reductase hinge protein (UQCRH), transcript variant 2, mRNA [NM_001297565]
A_23_P18692	5.42E-04	down	-1.887763	ADH5	Homo sapiens alcohol dehydrogenase 5 (class III), chi polypeptide (ADH5), mRNA [NM_000671]
A_23_P45917	0.001136479	down	-1.7499658	CKS1B	Homo sapiens CDC28 protein kinase regulatory subunit 1B (CKS1B), transcript variant 1, mRNA [NM_001826]
A_33_P3419632	0.03151432	down	-1.5176616	GLB1L3	galactosidase, beta 1-like 3 [Source:HGNC Symbol;Acc:HGNC:25147] [ENST00000389887]
A_23_P103476	0.007501718	down	-1.5254182	UBIAD1	Homo sapiens UbiA prenyltransferase domain containing 1 (UBIAD1), mRNA [NM_013319]
A_23_P6914	0.003375303	down	-1.6337596	OSBPL11	Homo sapiens oxysterol binding protein-like 11 (OSBPL11), mRNA [NM_022776]
A_23_P305210	9.28E-05	down	-2.197525	ZNF680	Homo sapiens zinc finger protein 680 (ZNF680), transcript variant 1, mRNA [NM_178558]
A_24_P182539	0.003780507	down	-1.6009244	ATG4C	Homo sapiens autophagy related 4C, cysteine peptidase (ATG4C), transcript variant 1, mRNA [NM_032852]
A_23_P61707	8.86E-04	down	-2.774621	HPSE2	Homo sapiens heparanase 2 (inactive) (HPSE2), transcript variant 1, mRNA [NM_021828]
A_21_P0011306	0.006769967	down	-1.5604087	SYNGR2	Homo sapiens synaptogyrin 2 (SYNGR2), mRNA [NM_004710]
A_23_P414913	4.01E-04	down	-2.0133717	GLIPR2	Homo sapiens GLI pathogenesis-related 2 (GLIPR2), transcript variant 1, mRNA [NM_022343]
A_32_P353072	1.08E-04	down	-2.2593493	TMEM106B	Homo sapiens transmembrane protein 106B (TMEM106B), transcript variant 1, mRNA [NM_018374]
A_23_P139648	0.026705492	down	-1.6802089	IAPP	Homo sapiens islet amyloid polypeptide (IAPP), mRNA [NM_000415]
A_33_P3349870	0.002725762	down	-1.9383991	PARBP	Homo sapiens chromosome 12 open reading frame 48, mRNA (cDNA clone IMAGE:3951688), complete cds. [BC018903]
A_33_P3372281	0.003581766	down	-1.8882203	MRS2	Homo sapiens MRS2 magnesium transporter (MRS2), transcript variant 3, mRNA [NM_001286265]
A_23_P309361	0.00549247	down	-1.5368019	HENMT1	Homo sapiens HEN1 methyltransferase homolog 1 (Arabidopsis) (HENMT1), transcript variant 1, mRNA [NM_144584]
A_23_P65558	2.67E-04	down	-1.9083133	MGAT2	Homo sapiens mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase (MGAT2), mRNA [NM_002408]
A_23_P76961	0.007776989	down	-1.5876455	RPS29	Homo sapiens ribosomal protein S29 (RPS29), transcript variant 1, mRNA [NM_001032]
A_23_P51906	0.010376195	down	-1.5408738	PFDN2	Homo sapiens prefoldin subunit 2 (PFDN2), mRNA [NM_012394]
A_32_P3914	0.0078709	down	-2.079835	WIPF3	Homo sapiens WAS/WASL interacting protein family, member 3 (WIPF3), mRNA [NM_001080529]
A_24_P29445	0.003259801	down	-1.6452276	TMEM14B	Homo sapiens transmembrane protein 14B (TMEM14B), transcript variant 1, mRNA [NM_030969]
A_24_P248606	5.13E-04	down	-1.8823283	ACSL3	Homo sapiens acyl-CoA synthetase long-chain family member 3 (ACSL3), transcript variant 1, mRNA [NM_004457]
A_23_P11629	0.007586235	down	-1.9358094	TMEM61	Homo sapiens transmembrane protein 61 (TMEM61), mRNA [NM_182532]
A_24_P393958	5.83E-04	down	-2.03947	DNAJB4	Homo sapiens DnaJ (Hsp40) homolog, subfamily B, member 4 (DNAJB4), mRNA [NM_007034]
A_33_P3317523	0.048395373	down	-1.5376794	STMN1	Homo sapiens stathmin 1 (STMN1), transcript variant 1, mRNA [NM_203401]
A_23_P92994	0.001640741	down	-1.6320529	MFF	Homo sapiens mitochondrial fission factor (MFF), transcript variant 2, mRNA [NM_020194]
A_33_P3243588	0.00156938	down	-1.7950556	PEX3	Homo sapiens peroxisomal biogenesis factor 3 (PEX3), mRNA [NM_003630]
A_33_P3226080	3.98E-04	down	-1.7644594	SCIMP	Homo sapiens SLP adaptor and CSK interacting membrane protein (SCIMP), transcript variant 1, mRNA [NM_207103]
A_23_P43425	6.60E-04	down	-1.8889253	C9orf40	Homo sapiens chromosome 9 open reading frame 40 (C9orf40), mRNA [NM_017998]
A_23_P201918	2.89E-04	down	-1.887601	ABCB10	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 10 (ABCB10), mRNA [NM_012089]
A_23_P140154	2.33E-05	down	-1.9200836	TMEM251	Homo sapiens transmembrane protein 251 (TMEM251), transcript variant 1, mRNA [NM_001098621]
A_33_P3392447	1.60E-04	down	-2.26963	BCL10	Homo sapiens B-cell CLL/lymphoma 10 (BCL10), mRNA [NM_003921]
A_23_P218731	5.76E-05	down	-2.1889687	CRYZL1	Homo sapiens crystallin, zeta (quinone reductase)-like 1 (CRYZL1), mRNA [NM_145858]
A_23_P259328	0.002773112	down	-1.692144	PEX3	Homo sapiens peroxisomal biogenesis factor 3 (PEX3), mRNA [NM_003630]
A_23_P160262	0.016507816	down	-1.6910084	ANGPTL3	Homo sapiens angiopoietin-like 3 (ANGPTL3), mRNA [NM_014495]
A_23_P101950	0.002832646	down	-1.6152493	MDH1	Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1), transcript variant 2, mRNA [NM_005917]
A_24_P38347	0.002636406	down	-1.792203	DPYSL2	Homo sapiens dihydropyrimidinase-like 2 (DPYSL2), transcript variant 2, mRNA [NM_001386]
A_23_P115885	5.94E-04	down	-2.0687065	MINPP1	Homo sapiens multiple inositol-polyphosphate phosphatase 1 (MINPP1), transcript variant 1, mRNA [NM_004897]
A_23_P81770	2.56E-04	down	-1.65609	PTP4A1	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1), mRNA [NM_003463]
A_33_P3351904	0.011010839	down	-1.9934016	PCDHA11	Homo sapiens protocadherin alpha 11 (PCDHA11), transcript variant 2, mRNA [NM_031861]
A_23_P164047	0.011758462	down	-1.6711593	MMD	Homo sapiens monocyte to macrophage differentiation-associated (MMD), mRNA [NM_012329]
A_23_P156852	0.003378151	down	-1.5710822	ECI2	Homo sapiens enoyl-CoA delta isomerase 2 (ECI2), transcript variant 2, mRNA [NM_206836]
A_23_P160567	0.001465688	down	-1.92572	ZMYND12	Homo sapiens zinc finger, MYND-type containing 12 (ZMYND12), transcript variant 1, mRNA [NM_032257]

A_23_P77459	0.001512765	down	-1.6057947	NAE1	Homo sapiens NEDD8 activating enzyme E1 subunit 1 (NAE1), transcript variant 2, mRNA [NM_001018159]
A_33_P3286066	0.013238985	down	-1.7926993	PHLDB2	Homo sapiens pleckstrin homology-like domain, family B, member 2 (PHLDB2), transcript variant 1, mRNA [NM_001134438]
A_33_P3240946	0.002062861	down	-2.380742	DPF3	Homo sapiens D4, zinc and double PHD fingers, family 3 (DPF3), transcript variant 4, mRNA [NM_001280544]
A_33_P3307197	0.007104043	down	-1.7368218	PTGFRN	Homo sapiens prostaglandin F2 receptor inhibitor (PTGFRN), mRNA [NM_020440]
A_23_P146050	4.44E-04	down	-2.16115	ZFAND1	Homo sapiens zinc finger, AN1-type domain 1 (ZFAND1), transcript variant 1, mRNA [NM_024699]
A_23_P309865	0.001260324	down	-1.690623	ZNF449	Homo sapiens zinc finger protein 449 (ZNF449), mRNA [NM_152695]
A_32_P154830	1.06E-04	down	-1.9124595	OSTM1	Homo sapiens osteopetrosis associated transmembrane protein 1 (OSTM1), mRNA [NM_014028]
A_23_P77066	0.003112533	down	-1.6486278	SNRPN	Homo sapiens small nuclear ribonucleoprotein polypeptide N (SNRPN), transcript variant 4, mRNA [NM_022807]
A_23_P430181	3.52E-04	down	-1.907901	ZBTB3	Homo sapiens zinc finger and BTB domain containing 3 (ZBTB3), mRNA [NM_024784]
A_23_P426140	6.58E-05	down	-2.245732	ZYG11B	Homo sapiens zyg-11 family member B, cell cycle regulator (ZYG11B), mRNA [NM_024646]
A_33_P3423425	0.001334967	down	-1.8014417	ZNF770	Homo sapiens zinc finger protein 770 (ZNF770), mRNA [NM_014106]
A_33_P3361393	1.49E-04	down	-1.8121166	EIF1AX	Homo sapiens eukaryotic translation initiation factor 1A, X-linked (EIF1AX), mRNA [NM_001412]
A_23_P338519	0.001306804	down	-1.9612696	NKIRAS1	Homo sapiens NFkB inhibitor interacting Ras-like 1 (NKIRAS1), mRNA [NM_020345]
A_23_P259333	0.001927392	down	-1.6237262	C6orf203	Homo sapiens chromosome 6 open reading frame 203 (C6orf203), transcript variant 1, mRNA [NM_016487]
A_23_P132936	7.90E-05	down	-1.819932	SPCS3	Homo sapiens signal peptidase complex subunit 3 homolog (S. cerevisiae) (SPCS3), mRNA [NM_021928]
A_24_P106794	9.93E-06	down	-1.952232	NUDCD1	Homo sapiens NudC domain containing 1 (NUDCD1), transcript variant 1, mRNA [NM_032869]
A_33_P3306113	6.07E-04	down	-1.6924667	JMJD4	Homo sapiens jumonji domain containing 4 (JMJD4), transcript variant 1, mRNA [NM_023007]
A_33_P3352727	0.039368004	down	-2.1073427	C20orf173	Homo sapiens chromosome 20 open reading frame 173 (C20orf173), transcript variant 2, non-coding RNA [NR_026933]
A_24_P345679	0.004748735	down	-1.6164678	MLF1	Homo sapiens myeloid leukemia factor 1 (MLF1), transcript variant 4, mRNA [NM_001195432]
A_33_P3377060	3.17E-04	down	-1.7316985	SSR1	Homo sapiens signal sequence receptor, alpha (SSR1), transcript variant 1, mRNA [NM_003144]
A_33_P3215028	0.001397913	down	-1.6062437	C6orf89	Homo sapiens chromosome 6 open reading frame 89 (C6orf89), transcript variant 1, mRNA [NM_152734]
A_33_P3273238	0.001124267	down	-1.6427153	ZNF320	Homo sapiens zinc finger protein 320 (ZNF320), mRNA [NM_207333]
A_24_P680908	0.016948747	down	-1.7020582	ZNF708	Homo sapiens zinc finger protein 708 (ZNF708), transcript variant 1, mRNA [NM_021269]
A_23_P216118	0.048112787	down	-1.5333613	UNC5D	Homo sapiens unc-5 homolog D (C. elegans) (UNC5D), mRNA [NM_080872]
A_23_P203920	0.031201521	down	-1.6128197	SSPN	Homo sapiens sarcospan (SSPN), transcript variant 1, mRNA [NM_005086]
A_23_P135995	4.54E-04	down	-1.8691698	ARV1	Homo sapiens ARV1 homolog (S. cerevisiae) (ARV1), mRNA [NM_022786]
A_33_P3210880	0.046975445	down	-1.8802651	ATP7A	Homo sapiens mRNA for ATPase, Cu++ transporting, alpha polypeptide variant protein. [AB208828]
A_24_P880043	8.27E-05	down	-2.0052798	PCGF5	Homo sapiens polycomb group ring finger 5 (PCGF5), transcript variant 1, mRNA [NM_032373]
A_33_P3302428	0.003832585	down	-1.594773	TNRC6C	Homo sapiens trinucleotide repeat containing 6C (TNRC6C), transcript variant 1, mRNA [NM_001142640]
A_33_P3239405	0.002182478	down	-1.8786048	TMEM9	Homo sapiens transmembrane protein 9 (TMEM9), transcript variant 3, mRNA [NM_001288565]
A_22_P00002830	0.006976179	down	-2.8979864	C2orf73	chromosome 2 open reading frame 73 [Source:HGNC Symbol;Acc:HGNC:26861] [ENST00000491538]
A_23_P71433	1.42E-04	down	-1.7757587	UBE2W	Homo sapiens ubiquitin-conjugating enzyme E2W (putative) (UBE2W), transcript variant 1, mRNA [NM_001001481]
A_24_P522631	0.002522663	down	-1.6879189	TMEM201	Homo sapiens transmembrane protein 201 (TMEM201), transcript variant 1, mRNA [NM_001130924]
A_23_P201368	4.54E-04	down	-1.834067	CTBS	Homo sapiens chitinase, di-N-acetyl- (CTBS), mRNA [NM_004388]
A_33_P3295283	7.22E-04	down	-1.6075002	LPCAT3	Homo sapiens lysophosphatidylcholine acyltransferase 3 (LPCAT3), mRNA [NM_005768]
A_22_P00022468	0.016003529	down	-1.7020317	LRRTM3	PREDICTED: Homo sapiens uncharacterized LOC101928938 (LOC101928938), ncRNA [XR_246122]
A_23_P25253	4.19E-04	down	-1.7546753	DERA	Homo sapiens deoxyribose-phosphate aldolase (putative) (DERA), transcript variant 1, mRNA [NM_015954]
A_32_P123088	5.19E-04	down	-1.6751746	TMED7-TICAM2	Homo sapiens TMED7-TICAM2 readthrough (TMED7-TICAM2), transcript variant 1, mRNA [NM_001164468]
A_24_P336705	0.001175967	down	-1.9029949	RABGGTB	Homo sapiens Rab geranylgeranyltransferase, beta subunit (RABGGTB), transcript variant 1, mRNA [NM_004582]
A_23_P149476	0.00772526	down	-2.2579312	EFCAB2	Homo sapiens EF-hand calcium binding domain 2 (EFCAB2), transcript variant 1, mRNA [NM_032328]
A_24_P201125	0.002607639	down	-2.0315716	ZNF510	Homo sapiens zinc finger protein 510 (ZNF510), mRNA [NM_014930]
A_33_P3349444	0.003179295	down	-1.6210953	NAGA	Homo sapiens N-acetylgalactosaminidase, alpha- (NAGA), mRNA [NM_000262]
A_33_P3259662	0.00296041	down	-1.5754153	ZNF134	Homo sapiens zinc finger protein 134 (ZNF134), mRNA [NM_003435]
A_33_P3368776	5.28E-04	down	-2.9209893	TMIGD1	Homo sapiens transmembrane and immunoglobulin domain containing 1 (TMIGD1), mRNA [NM_206832]
A_32_P184394	4.95E-04	down	-1.8439181	TFEC	Homo sapiens transcription factor EC (TFEC), transcript variant 1, mRNA [NM_012252]
A_22_P00019101	0.001346636	down	-1.6772977	CREB1	Homo sapiens cAMP responsive element binding protein 1 (CREB1), transcript variant B, mRNA [NM_134442]
A_23_P416608	6.26E-04	down	-2.3847957	LAMP2	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), transcript variant B, mRNA [NM_013995]

A_23_P167269	0.001444536	down	-1.6618465	TMA16	Homo sapiens translation machinery associated 16 homolog (S. cerevisiae) (TMA16), mRNA [NM_018352]
A_23_P23074	4.74E-04	down	-2.1007798	IFI44	Homo sapiens interferon-induced protein 44 (IFI44), mRNA [NM_006417]
A_33_P3221788	0.005975967	down	-1.6547593	RAB22A	Homo sapiens RAB22A, member RAS oncogene family (RAB22A), mRNA [NM_020673]
A_33_P3409508	7.37E-04	down	-2.0764349	MAPK11	Homo sapiens mitogen-activated protein kinase 11 (MAPK11), transcript variant 1, mRNA [NM_002751]
A_33_P3279940	1.44E-05	down	-2.2016857	TM2D1	Homo sapiens TM2 domain containing 1 (TM2D1), mRNA [NM_032027]
A_23_P130444	4.30E-05	down	-2.0678327	ZNF701	Homo sapiens zinc finger protein 701 (ZNF701), transcript variant 2, mRNA [NM_018260]
A_23_P204304	0.001624144	down	-1.8635845	PTPRO	Homo sapiens protein tyrosine phosphatase, receptor type, O (PTPRO), transcript variant 1, mRNA [NM_030667]
A_23_P319874	0.013236521	down	-1.563621	TCAIM	Homo sapiens T cell activation inhibitor, mitochondrial (TCAIM), transcript variant 3, mRNA [NM_001029840]
A_33_P3282434	4.96E-04	down	-1.742994	SLC16A1	Homo sapiens solute carrier family 16 (monocarboxylate transporter), member 1 (SLC16A1), transcript variant 2, mRNA [NM_001166496]
A_24_P381604	1.32E-04	down	-1.7130008	ITM2B	Homo sapiens integral membrane protein 2B (ITM2B), mRNA [NM_021999]
A_24_P372217	6.29E-04	down	-1.9358102	ERLIN2	Homo sapiens ER lipid raft associated 2 (ERLIN2), transcript variant 1, mRNA [NM_007175]
A_24_P269619	2.02E-04	down	-1.909018	DECR1	Homo sapiens 2,4-dienoyl CoA reductase 1, mitochondrial (DECR1), mRNA [NM_001359]
A_33_P3599591	0.031575885	down	-2.4252937	PAPPA	Homo sapiens pregnancy-associated plasma protein A, pappalysin 1 (PAPPA), mRNA [NM_002581]
A_23_P102262	0.001618852	down	-1.6406565	MRPL19	Homo sapiens mitochondrial ribosomal protein L19 (MRPL19), mRNA [NM_014763]
A_33_P3217119	0.005077502	down	-1.7588195	OSCP1	Homo sapiens organic solute carrier partner 1 (OSCP1), transcript variant 2, mRNA [NM_206837]
A_33_P3269718	0.01117581	down	-1.6137978	IVD	Homo sapiens isovaleryl-CoA dehydrogenase (IVD), transcript variant 2, mRNA [NM_001159508]
A_23_P29655	0.003226149	down	-1.625182	C3orf14	Homo sapiens chromosome 3 open reading frame 14 (C3orf14), transcript variant 1, mRNA [NM_020685]
A_33_P3402763	6.30E-04	down	-2.0407274	NIFK	Homo sapiens nucleolar protein interacting with the FHA domain of MKI67 (NIFK), mRNA [NM_032390]
A_23_P157726	0.002559227	down	-1.7434796	DENND4C	DENN/MADD domain containing 4C [Source:HGNC Symbol;Acc:HGNC:26079] [ENST00000380437]
A_24_P341019	0.001843096	down	-1.61689	TMEM230	Homo sapiens transmembrane protein 230 (TMEM230), transcript variant 2, mRNA [NM_001009924]
A_33_P3315425	2.95E-04	down	-1.6416718	METTL4	Homo sapiens methyltransferase like 4 (METTL4), mRNA [NM_022840]
A_33_P3389291	0.01670215	down	-1.7617521	TEX9	Homo sapiens testis expressed 9 (TEX9), transcript variant 2, mRNA [NM_001286449]
A_23_P30122	0.015881402	down	-2.027737	IL2	Homo sapiens interleukin 2 (IL2), mRNA [NM_000586]
A_33_P3394744	0.014786385	down	-1.7113149	DMRT2	Homo sapiens doublesex and mab-3 related transcription factor 2 (DMRT2), transcript variant 1, mRNA [NM_006557]
A_33_P7363082	4.20E-04	down	-1.7337841	CWC15	Homo sapiens CWC15 spliceosome-associated protein (CWC15), mRNA [NM_016403]
A_23_P111604	0.0498661	down	-1.5991268	NXPH1	Homo sapiens neuorexophilin 1 (NXPH1), mRNA [NM_152745]
A_24_P70117	0.001575773	down	-1.8702025	DTWD1	Homo sapiens DTW domain containing 1 (DTWD1), transcript variant 1, mRNA [NM_020234]
A_23_P126057	3.88E-04	down	-2.5208216	SCP2	Homo sapiens sterol carrier protein 2 (SCP2), transcript variant 1, mRNA [NM_002979]
A_24_P231104	3.19E-04	down	-2.766716	LEPR	Homo sapiens leptin receptor (LEPR), transcript variant 3, mRNA [NM_001003679]
A_32_P155631	3.19E-04	down	-1.8599402	SDHD	Homo sapiens succinate dehydrogenase complex, subunit D, integral membrane protein (SDHD), transcript variant 1, mRNA [NM_003002]
A_33_P3244640	0.006148567	down	-2.2588525	GRK5	G protein-coupled receptor kinase 5 [Source:HGNC Symbol;Acc:HGNC:4544] [ENST00000369108]
A_32_P313405	0.0460912	down	-1.9094045	LAMA1	Homo sapiens laminin, alpha 1 (LAMA1), mRNA [NM_005559]
A_23_P169197	0.00365166	down	-1.5753866	HSDL2	Homo sapiens hydroxysteroid dehydrogenase like 2 (HSDL2), transcript variant 1, mRNA [NM_032303]
A_23_P97860	0.0305664	down	-1.6243658	LIPA	Homo sapiens lipase A, lysosomal acid, cholesterol esterase (LIPA), transcript variant 2, mRNA [NM_000235]
A_32_P198330	0.001725319	down	-1.6714507	SREK1IP1	Homo sapiens SREK1-interacting protein 1 (SREK1IP1), mRNA [NM_173829]
A_33_P3235766	0.003702374	down	-1.6738209	QSER1	Homo sapiens glutamine and serine rich 1 (QSER1), mRNA [NM_001076786]
A_33_P3343360	0.037249193	down	-1.6312376	CCSER1	Homo sapiens coiled-coil serine-rich protein 1 (CCSER1), transcript variant 2, mRNA [NM_207491]
A_32_P184279	0.00206864	down	-1.6920322	CCDC6	Homo sapiens coiled-coil domain containing 6 (CCDC6), mRNA [NM_005436]
A_24_P115511	0.011879432	down	-1.5528275	RAB14	Homo sapiens RAB14, member RAS oncogene family (RAB14), mRNA [NM_016322]
A_33_P3219821	0.0096813	down	-1.7139322	FMN2	Homo sapiens formin 2 (FMN2), mRNA [NM_020066]
A_23_P144348	0.001284207	down	-2.1043441	SLIT2	Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant 1, mRNA [NM_004787]
A_23_P930	0.017555647	down	-1.5043713	APH1A	Homo sapiens APH1A gamma secretase subunit (APH1A), transcript variant 1, mRNA [NM_001077628]
A_32_P492524	0.012242583	down	-1.8114004	GALNT13	Homo sapiens polypeptide N-acetylgalactosaminyltransferase 13 (GALNT13), transcript variant 1, mRNA [NM_052917]
A_23_P413815	8.64E-04	down	-1.5673466	VKORC1L1	Homo sapiens vitamin K epoxide reductase complex, subunit 1-like 1 (VKORC1L1), transcript variant 1, mRNA [NM_173517]
A_24_P309594	0.00399583	down	-1.6027883	SLC48A1	Homo sapiens solute carrier family 48 (heme transporter), member 1 (SLC48A1), mRNA [NM_017842]
A_33_P3365805	9.99E-04	down	-1.7642914	CLN5	Homo sapiens ceroid-lipofuscinosis, neuronal 5 (CLN5), mRNA [NM_006493]
A_21_P0012376	2.25E-04	down	-1.7984272	GEMIN2	Homo sapiens gem (nuclear organelle) associated protein 2 (GEMIN2), transcript variant gamma, mRNA [NM_001009183]
A_33_P3307187	0.012899864	down	-1.8336067	NPAS3	Homo sapiens neuronal PAS domain protein 3 (NPAS3), transcript variant 1, mRNA [NM_001164749]

A_33_P3502315	1.68E-05	down	-2.1491327	CRLS1	Homo sapiens cardiolipin synthase 1 (CRLS1), transcript variant 1, mRNA [NM_019095]
A_33_P3327592	2.92E-04	down	-1.6313608	RNF13	Homo sapiens ring finger protein 13 (RNF13), transcript variant 1, mRNA [NM_007282]
A_23_P329353	0.011921446	down	-1.9013433	CNRIP1	Homo sapiens cannabinoid receptor interacting protein 1 (CNRIP1), transcript variant CRIP1a, mRNA [NM_015463]
A_23_P100991	0.018827122	down	-1.6814543	KRT38	Homo sapiens keratin 38, type I (KRT38), mRNA [NM_006771]
A_33_P3211423	0.002022777	down	-1.6878092	PANK3	pantothenate kinase 3 [Source:HGNC Symbol;Acc:HGNC:19365] [ENST00000239231]
A_33_P3216297	1.17E-05	down	-2.0662837	NR3C1	Homo sapiens nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) (NR3C1), transcript variant 5, mRNA [NM_001018077]
A_24_P80338	0.00415096	down	-1.5136704	NEK4	Homo sapiens NIMA-related kinase 4 (NEK4), transcript variant 1, mRNA [NM_003157]
A_23_P59202	3.28E-04	down	-1.6287001	TAF11	Homo sapiens TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 28kDa (TAF11), transcript variant 1, mRNA [NM_005643]
A_33_P3331242	7.14E-05	down	-1.9977522	G3BP1	Homo sapiens GTPase activating protein (SH3 domain) binding protein 1 (G3BP1), transcript variant 1, mRNA [NM_005754]
A_33_P3414122	7.06E-04	down	-1.7036184	ZNF260	Homo sapiens zinc finger protein 260 (ZNF260), transcript variant 1, mRNA [NM_001012756]
A_23_P213093	0.004800882	down	-1.8280381	OCIA1	Homo sapiens OCIA domain containing 1 (OCIA1), transcript variant 2, mRNA [NM_001079839]
A_24_P148094	0.008317328	down	-1.5900108	LEPROT	Homo sapiens leptin receptor overlapping transcript (LEPROT), transcript variant 1, mRNA [NM_017526]
A_33_P3377261	5.39E-04	down	-1.7135812	RNF7	Homo sapiens ring finger protein 7 (RNF7), transcript variant 1, mRNA [NM_014245]
A_23_P5301	0.038231663	down	-1.5340513	TFCP2L1	Homo sapiens transcription factor CP2-like 1 (TFCP2L1), mRNA [NM_014553]
A_23_P8961	7.45E-04	down	-1.9001794	IL7	Homo sapiens interleukin 7 (IL7), transcript variant 1, mRNA [NM_000880]
A_33_P3289536	1.36E-05	down	-3.3952658	SNX10	Homo sapiens sorting nexin 10 (SNX10), transcript variant 1, mRNA [NM_001199835]
A_23_P88680	0.003126945	down	-1.8863534	EMC7	Homo sapiens ER membrane protein complex subunit 7 (EMC7), mRNA [NM_020154]
A_33_P3311076	0.001733455	down	-1.8518671	CYB5A	Homo sapiens cytochrome b5 type A (microsomal) (CYB5A), transcript variant 3, mRNA [NM_001190807]
A_33_P3416762	4.53E-05	down	-2.1065445	LYPLA1	Homo sapiens lysophospholipase I (LYPLA1), transcript variant 1, mRNA [NM_006330]
A_23_P419239	6.52E-05	down	-2.0301037	ETNK1	Homo sapiens ethanolamine kinase 1 (ETNK1), transcript variant 1, mRNA [NM_018638]
A_23_P205997	0.00123706	down	-1.5754642	APH1B	Homo sapiens APH1B gamma secretase subunit (APH1B), transcript variant 1, mRNA [NM_031301]
A_24_P75158	0.006192087	down	-1.5778135	PTAR1	Homo sapiens protein prenyltransferase alpha subunit repeat containing 1 (PTAR1), mRNA [NM_001099666]
A_23_P501010	0.013685597	down	-1.7970062	COL17A1	Homo sapiens collagen, type XVII, alpha 1 (COL17A1), mRNA [NM_000494]
A_33_P3260777	0.005153012	down	-1.6571577	ARF5	Homo sapiens ADP-ribosylation factor 5 (ARF5), mRNA [NM_001662]
A_23_P21734	0.004726589	down	-1.5479854	AK6	Homo sapiens adenylate kinase 6 (AK6), transcript variant 3, mRNA [NM_001015891]
A_33_P3243657	9.50E-04	down	-1.6680907	TIMM10B	Homo sapiens translocase of inner mitochondrial membrane 10 homolog B (yeast) (TIMM10B), mRNA [NM_012192]
A_24_P158421	0.00371209	down	-1.8678043	SAR1A	Homo sapiens secretion associated, Ras related GTPase 1A (SAR1A), transcript variant 2, mRNA [NM_020150]
A_23_P93431	4.43E-04	down	-1.9309683	AIG1	Homo sapiens androgen-induced 1 (AIG1), transcript variant 1, mRNA [NM_016108]
A_23_P126291	0.001528911	down	-1.5696162	SNRPE	Homo sapiens small nuclear ribonucleoprotein polypeptide E (SNRPE), mRNA [NM_003094]
A_23_P91076	0.001007759	down	-2.3849266	TMEM87B	Homo sapiens transmembrane protein 87B (TMEM87B), mRNA [NM_032824]
A_23_P204702	5.99E-05	down	-1.8239574	TMBIM6	Homo sapiens transmembrane BAX inhibitor motif containing 6 (TMBIM6), transcript variant 1, mRNA [NM_003217]
A_33_P3218316	0.012624305	down	-1.8146894	VSTM2B	Homo sapiens V-set and transmembrane domain containing 2B (VSTM2B), mRNA [NM_001146339]
A_24_P920521	0.015658854	down	-1.6275479	COMMD6	Homo sapiens COMM domain containing 6 (COMMD6), transcript variant 1, mRNA [NM_203497]
A_24_P105564	0.018186312	down	-1.6672918	PRKAB2	Homo sapiens protein kinase, AMP-activated, beta 2 non-catalytic subunit (PRKAB2), transcript variant 1, mRNA [NM_005399]
A_23_P136172	1.81E-04	down	-1.8205359	TMEM68	Homo sapiens transmembrane protein 68 (TMEM68), transcript variant 2, mRNA [NM_152417]
A_33_P3231252	0.015568391	down	-1.7188777	NHLH2	Homo sapiens nescient helix loop helix 2 (NHLH2), transcript variant 1, mRNA [NM_005599]
A_33_P3270059	0.041690014	down	-1.5416869	RBMXL2	Homo sapiens RNA binding motif protein, X-linked-like 2 (RBMXL2), mRNA [NM_014469]
A_23_P200216	0.002396142	down	-1.7861887	MAGOH	Homo sapiens mago-nashi homolog, proliferation-associated (Drosophila) (MAGOH), mRNA [NM_002370]
A_24_P277155	0.00317701	down	-1.942635	HLTF	Homo sapiens helicase-like transcription factor (HLTF), transcript variant 1, mRNA [NM_003071]
A_24_P49533	9.62E-04	down	-1.9919453	ZYG11B	Homo sapiens zyg-11 family member B, cell cycle regulator (ZYG11B), mRNA [NM_024646]
A_32_P145153	0.005766694	down	-1.6605573	RPL31	Homo sapiens ribosomal protein L31 (RPL31), transcript variant 1, mRNA [NM_000993]
A_33_P3397323	0.010136342	down	-1.5274853	ZNF441	Homo sapiens zinc finger protein 441 (ZNF441), mRNA [NM_152355]
A_24_P109432	0.020066213	down	-1.7061154	NBEAL1	Homo sapiens neurobeachin-like 1 (NBEAL1), mRNA [NM_001114132]
A_23_P8522	2.02E-04	down	-1.8566566	TMEM106B	Homo sapiens transmembrane protein 106B (TMEM106B), transcript variant 1, mRNA [NM_018374]
A_33_P3243997	0.00526767	down	-1.5910784	PSME4	Homo sapiens proteasome (prosome, macropain) activator subunit 4 (PSME4), mRNA [NM_014614]
A_23_P325726	0.002141879	down	-2.106618	ACOT11	Homo sapiens acyl-CoA thioesterase 11 (ACOT11), transcript variant 1, mRNA [NM_015547]

A_23_P346006	0.008740828	down	-1.6371971	CCPG1	Homo sapiens cell cycle progression 1 (CCPG1), transcript variant 2, mRNA [NM_020739]
A_24_P187921	8.65E-04	down	-1.950882	MANEA	Homo sapiens mannosidase, endo-alpha (MANEA), mRNA [NM_024641]
A_24_P108242	7.55E-04	down	-1.619986	GOSR2	Homo sapiens golgi SNAP receptor complex member 2 (GOSR2), transcript variant A, mRNA [NM_004287]
A_23_P314191	7.11E-04	down	-1.8399798	ZDHHC17	Homo sapiens zinc finger, DHHC-type containing 17 (ZDHHC17), mRNA [NM_015336]
A_24_P43391	3.06E-04	down	-2.1839767	TMEM165	Homo sapiens transmembrane protein 165 (TMEM165), transcript variant 1, mRNA [NM_018475]
A_33_P3288569	0.001809599	down	-1.7906119	MBIP	Homo sapiens MAP3K12 binding inhibitory protein 1 (MBIP), transcript variant 2, mRNA [NM_001144891]
A_24_P924816	0.001498869	down	-2.1560414	SLC2A13	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 13 (SLC2A13), mRNA [NM_052885]
A_23_P110430	0.00354364	down	-2.1506426	MSX1	Homo sapiens msh homeobox 1 (MSX1), mRNA [NM_002448]
A_23_P33881	0.009686637	down	-2.117552	SSX4B	Homo sapiens synovial sarcoma, X breakpoint 4B (SSX4B), transcript variant 1, mRNA [NM_001034832]
A_23_P89799	0.013495182	down	-1.5031608	ACAA2	Homo sapiens acetyl-CoA acyltransferase 2 (ACAA2), mRNA [NM_006111]
A_23_P80040	0.011268116	down	-1.716027	PROCR	Homo sapiens protein C receptor, endothelial (PROCR), mRNA [NM_006404]
A_23_P98382	0.001167187	down	-1.7901644	TIMM8B	Homo sapiens translocase of inner mitochondrial membrane 8 homolog B (yeast) (TIMM8B), transcript variant 1, mRNA [NM_012459]
A_24_P12281	6.80E-04	down	-1.8617228	AP4S1	Homo sapiens adaptor-related protein complex 4, sigma 1 subunit (AP4S1), transcript variant 1, mRNA [NM_007077]
A_24_P274795	0.017262163	down	-1.6785401	CDC47L	Homo sapiens cell division cycle associated 7-like (CDC47L), transcript variant 1, mRNA [NM_018719]
A_23_P2066	4.09E-05	down	-2.285545	APIP	Homo sapiens APAF1 interacting protein (APIP), mRNA [NM_015957]
A_23_P97532	0.008020195	down	-1.5148945	VAMP3	Homo sapiens vesicle-associated membrane protein 3 (VAMP3), mRNA [NM_004781]
A_33_P3359543	0.0056008	down	-1.5602326	ZNF561	Homo sapiens zinc finger protein 561 (ZNF561), mRNA [NM_152289]
A_24_P106591	6.52E-04	down	-1.6636764	BLOC1S5	Homo sapiens biogenesis of lysosomal organelles complex-1, subunit 5, muted (BLOC1S5), transcript variant 1, mRNA [NM_201280]
A_24_P371962	1.92E-04	down	-1.7710829	AMD1	Homo sapiens adenosylmethionine decarboxylase 1 (AMD1), transcript variant 1, mRNA [NM_001634]
A_23_P218858	0.009430056	down	-1.9397721	ABI3BP	Homo sapiens ABI family, member 3 (NESH) binding protein (ABI3BP), mRNA [NM_015429]
A_23_P205830	0.00104173	down	-1.7179413	BTBD1	Homo sapiens BTB (POZ) domain containing 1 (BTBD1), transcript variant 1, mRNA [NM_025238]
A_23_P372331	0.007059829	down	-1.5104238	TRNT1	Homo sapiens tRNA nucleotidyl transferase, CCA-adding, 1 (TRNT1), transcript variant 1, mRNA [NM_182916]
A_23_P22433	2.04E-04	down	-1.7528341	RP2	Homo sapiens retinitis pigmentosa 2 (X-linked recessive) (RP2), mRNA [NM_006915]
A_33_P3299872	0.001242856	down	-1.6814706	HINT3	Homo sapiens histidine triad nucleotide binding protein 3 (HINT3), mRNA [NM_138571]
A_23_P217109	0.006035227	down	-1.6166567	SLC31A2	Homo sapiens solute carrier family 31 (copper transporter), member 2 (SLC31A2), mRNA [NM_001860]
A_32_P165340	1.85E-04	down	-1.7432061	SRP9	Homo sapiens signal recognition particle 9kDa (SRP9), transcript variant 2, mRNA [NM_003133]
A_24_P918266	0.001065529	down	-1.9834021	TMTCD3	Homo sapiens transmembrane and tetratricopeptide repeat containing 3 (TMTCD3), mRNA [NM_181783]
A_23_P23855	9.70E-04	down	-1.6302295	POLR3GL	Homo sapiens polymerase (RNA) III (DNA directed) polypeptide G (32kD)-like (POLR3GL), mRNA [NM_032305]
A_24_P309360	2.66E-04	down	-1.7628549	TM9SF3	Homo sapiens transmembrane 9 superfamily member 3 (TM9SF3), mRNA [NM_020123]
A_23_P154330	2.68E-04	down	-1.6849104	TXNDC9	Homo sapiens thioredoxin domain containing 9 (TXNDC9), mRNA [NM_005783]
A_33_P3311618	0.001491859	down	-1.6770731	RABGGTB	Homo sapiens Rab geranylgeranyltransferase, beta subunit (RABGGTB), transcript variant 1, mRNA [NM_004582]
A_32_P52911	1.94E-04	down	-1.9459783	ADI1	Homo sapiens acireductone dioxygenase 1 (ADI1), mRNA [NM_018269]
A_21_P0000091	0.013550137	down	-1.6712642	LRRC34	Homo sapiens leucine rich repeat containing 34 (LRRC34), transcript variant 1, mRNA [NM_001172780]
A_24_P416411	2.51E-04	down	-1.8159502	PEX12	Homo sapiens peroxisomal biogenesis factor 12 (PEX12), mRNA [NM_000286]
A_24_P113287	0.012081434	down	-1.8093921	ZNF229	Homo sapiens zinc finger protein 229 (ZNF229), transcript variant 1, mRNA [NM_014518]
A_23_P53646	0.001354187	down	-1.6256263	NAP1L1	Homo sapiens nucleosome assembly protein 1-like 1 (NAP1L1), transcript variant 1, mRNA [NM_139207]
A_24_P944741	0.019895902	down	-1.7435197	LRP2BP	Homo sapiens LRP2 binding protein (LRP2BP), mRNA [NM_018409]
A_24_P181101	1.03E-04	down	-2.0921462	TMEM135	Homo sapiens transmembrane protein 135 (TMEM135), transcript variant 1, mRNA [NM_022918]
A_23_P145463	0.014355845	down	-1.5904458	SLC35B3	Homo sapiens solute carrier family 35 (adenosine 3'-phospho 5'-phosphosulfate transporter), member B3 (SLC35B3), transcript variant 1, mRNA [NM_015948]
A_33_P3371819	0.018862467	down	-1.9923682	PTCD2	Homo sapiens pentatricopeptide repeat domain 2 (PTCD2), transcript variant 1, mRNA [NM_024754]
A_23_P388921	0.01871502	down	-1.6834362	CCER1	coiled-coil glutamate-rich protein 1 [Source:HGNC Symbol;Acc:HGNC:28373] [ENST00000358859]
A_23_P69720	5.44E-04	down	-1.8154719	ANXA5	Homo sapiens annexin A5 (ANXA5), mRNA [NM_001154]
A_24_P137376	0.004196285	down	-1.8094486	ATP2C1	Homo sapiens ATPase, Ca++ transporting, type 2C, member 1 (ATP2C1), transcript variant 3, mRNA [NM_001001485]
A_24_P200162	1.32E-04	down	-1.916072	HIGD1A	Homo sapiens HIG1 hypoxia inducible domain family, member 1A (HIGD1A), transcript variant 3, mRNA [NM_014056]
A_33_P3343120	0.001394393	down	-1.7896347	IRF8	Homo sapiens interferon regulatory factor 8 (IRF8), mRNA [NM_002163]
A_23_P368645	0.001480133	down	-1.8198333	AGPS	Homo sapiens alkylglycerone phosphate synthase (AGPS), mRNA [NM_003659]
A_23_P88095	0.006173141	down	-1.7420225	TBC1D4	Homo sapiens TBC1 domain family, member 4 (TBC1D4), transcript variant 1, mRNA [NM_014832]

A_33_P3327270	0.001568281	down	-1.6169441	TMED7-TICAM2	Homo sapiens TMED7-TICAM2 readthrough (TMED7-TICAM2), transcript variant 2, mRNA [NM_001164469]
A_23_P334883	0.011817466	down	-2.842419	SHANK2	Homo sapiens SH3 and multiple ankyrin repeat domains 2 (SHANK2), transcript variant 1, mRNA [NM_012309]
A_23_P149121	0.048218876	down	-1.5737172	DIRAS3	Homo sapiens DIRAS family, GTP-binding RAS-like 3 (DIRAS3), mRNA [NM_004675]
A_33_P3772996	0.010480296	down	-1.7397814	PRKACB	Homo sapiens protein kinase, cAMP-dependent, catalytic, beta (PRKACB), transcript variant 7, mRNA [NM_001242860]
A_33_P3255914	4.66E-05	down	-2.1154776	MYLIP	Homo sapiens myosin regulatory light chain interacting protein (MYLIP), mRNA [NM_013262]
A_33_P3414907	0.015238641	down	-1.7383487	NPL	Homo sapiens N-acetylneuraminase pyruvate lyase (dihydrodipicolinate synthase) (NPL), transcript variant 2, mRNA [NM_001200050]
A_33_P3395274	6.78E-04	down	-1.7369533	ZADH2	Homo sapiens zinc binding alcohol dehydrogenase domain containing 2 (ZADH2), mRNA [NM_175907]
A_23_P392126	0.026995996	down	-1.5451139	LYRM9	Homo sapiens LYM motif containing 9 (LYRM9), mRNA [NM_001076680]
A_24_P396720	8.29E-05	down	-1.9813288	PPP1CB	Homo sapiens protein phosphatase 1, catalytic subunit, beta isozyme (PPP1CB), transcript variant 1, mRNA [NM_002709]
A_33_P3252093	0.001504833	down	-1.762431	TMED10	Homo sapiens transmembrane emp24-like trafficking protein 10 (yeast) (TMED10), mRNA [NM_006827]
A_33_P3243364	0.013901285	down	-1.622961	ERCC4	Homo sapiens excision repair cross-complementation group 4 (ERCC4), mRNA [NM_005236]
A_33_P3244669	2.45E-05	down	-2.1290874	TMEM30A	Homo sapiens transmembrane protein 30A (TMEM30A), transcript variant 1, mRNA [NM_018247]
A_24_P334300	0.005455842	down	-2.7330756	FGF12	Homo sapiens fibroblast growth factor 12 (FGF12), transcript variant 2, mRNA [NM_004113]
A_23_P106898	0.004807406	down	-1.75193	ORAI3	Homo sapiens ORAI calcium release-activated calcium modulator 3 (ORAI3), mRNA [NM_152288]
A_23_P166616	0.009701025	down	-1.8347795	AGTR1	Homo sapiens angiotensin II receptor, type 1 (AGTR1), transcript variant 4, mRNA [NM_031850]
A_24_P156490	0.019380102	down	-2.007767	KCNMA1	Homo sapiens potassium channel, calcium activated large conductance subfamily M alpha, member 1 (KCNMA1), transcript variant 2, mRNA [NM_002247]
A_23_P313512	0.001093088	down	-1.7668579	DCP1B	Homo sapiens decapping mRNA 1B (DCP1B), mRNA [NM_152640]
A_23_P153098	1.50E-04	down	-1.7854933	HDHD2	Homo sapiens haloacid dehalogenase-like hydrolase domain containing 2 (HDHD2), mRNA [NM_032124]
A_24_P854913	0.024775796	down	-1.5862814	METTL21A	Homo sapiens methyltransferase like 21A (METTL21A), transcript variant 2, mRNA [NM_001127395]
A_24_P323598	0.001752534	down	-2.270044	ESCO2	Homo sapiens establishment of sister chromatid cohesion N-acetyltransferase 2 (ESCO2), mRNA [NM_001017420]
A_24_P233915	0.001971902	down	-1.6266961	MED8	Homo sapiens mediator complex subunit 8 (MED8), transcript variant 4, mRNA [NM_001001653]
A_23_P208009	1.37E-04	down	-1.7581416	SEC11C	Homo sapiens SEC11 homolog C (S. cerevisiae) (SEC11C), mRNA [NM_033280]
A_33_P3373955	0.028301038	down	-1.6150042	RD3	Homo sapiens retinal degeneration 3 (RD3), transcript variant 1, mRNA [NM_183059]
A_24_P372625	0.00159502	down	-1.6508278	RNF141	Homo sapiens ring finger protein 141 (RNF141), mRNA [NM_016422]
A_23_P408455	3.82E-04	down	-1.7518076	SLC25A36	Homo sapiens solute carrier family 25 (pyrimidine nucleotide carrier), member 36 (SLC25A36), transcript variant 1, mRNA [NM_001104647]
A_23_P386450	0.002007057	down	-1.5896257	POLK	Homo sapiens polymerase (DNA directed) kappa (POLK), mRNA [NM_016218]
A_23_P65230	0.001213621	down	-2.045357	TMTC4	Homo sapiens transmembrane and tetratricopeptide repeat containing 4 (TMTC4), transcript variant 1, mRNA [NM_032813]
A_33_P3405995	0.02412573	down	-1.9018755	YBEY	Homo sapiens ybeY metalloproteinase (putative) (YBEY), transcript variant 1, mRNA [NM_058181]
A_24_P190877	0.001998854	down	-1.6751424	TRMT1L	Homo sapiens tRNA methyltransferase 1 homolog (S. cerevisiae)-like (TRMT1L), transcript variant 1, mRNA [NM_030934]
A_33_P6517036	0.022413978	down	-1.6745641	CDH13	cadherin 13 [Source:HGNC Symbol;Acc:HGNC:1753][ENST00000567109]
A_33_P3394075	0.001091679	down	-1.7009506	RIT1	Homo sapiens Ras-like without CAAX 1 (RIT1), transcript variant 2, mRNA [NM_006912]
A_33_P3362770	0.017374944	down	-1.6628108	RRN3	Homo sapiens RRN3 RNA polymerase I transcription factor homolog (S. cerevisiae) (RRN3), transcript variant 2, mRNA [NM_001301064]
A_23_P213754	6.78E-05	down	-2.0034142	PAIP2	Homo sapiens poly(A) binding protein interacting protein 2 (PAIP2), transcript variant 1, mRNA [NM_001033112]
A_23_P408271	3.87E-05	down	-2.1628964	HSD17B11	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 11 (HSD17B11), mRNA [NM_016245]
A_23_P61569	2.08E-04	down	-1.972191	VAMP4	Homo sapiens vesicle-associated membrane protein 4 (VAMP4), transcript variant 1, mRNA [NM_003762]
A_33_P3424257	7.12E-04	down	-1.6409888	NAA50	Homo sapiens N(alpha)-acetyltransferase 50, NatE catalytic subunit (NAA50), mRNA [NM_025146]
A_23_P17074	0.001913787	down	-1.5608116	CCDC115	Homo sapiens coiled-coil domain containing 115 (CCDC115), transcript variant 1, mRNA [NM_032357]
A_33_P3364112	0.001915284	down	-1.601637	FRS2	Homo sapiens fibroblast growth factor receptor substrate 2 (FRS2), transcript variant 3, mRNA [NM_001278351]
A_23_P152804	0.00252577	down	-1.5966052	NME1	Homo sapiens NME/NM23 nucleoside diphosphate kinase 1 (NME1), transcript variant 1, mRNA [NM_198175]
A_33_P3370109	0.002004492	down	-1.5894111	IMPA1	Homo sapiens inositol(myo)-1(or 4)-monophosphatase 1 (IMPA1), transcript variant 3, mRNA [NM_001144879]
A_24_P317874	0.001381613	down	-1.6264503	KIN	Homo sapiens Kin17 DNA and RNA binding protein (KIN), transcript variant 1, mRNA [NM_012311]
A_24_P284353	0.005959383	down	-1.5555987	TMEM107	Homo sapiens transmembrane protein 107 (TMEM107), transcript variant 1, mRNA [NM_032354]
A_23_P113283	0.001353781	down	-2.0987318	ZMAT3	Homo sapiens zinc finger, matrin-type 3 (ZMAT3), transcript variant 1, mRNA [NM_022470]
A_23_P29046	6.67E-04	down	-1.7724023	CBR1	Homo sapiens carbonyl reductase 1 (CBR1), transcript variant 1, mRNA [NM_001757]
A_23_P2825	0.006247805	down	-1.7115407	KLHL1	Homo sapiens kelch-like family member 1 (KLHL1), transcript variant 1, mRNA [NM_020866]

A_24_P341222	0.001828919	down	-1.7849275	SMIM20	Homo sapiens small integral membrane protein 20 (SMIM20), mRNA [NM_001145432]
A_23_P117163	0.001518157	down	-1.8767238	RCBTB1	Homo sapiens regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 1 (RCBTB1), mRNA [NM_018191]
A_19_P00808208	0.010616461	down	-1.7316656	CDC47L	Homo sapiens cell division cycle associated 7-like (CDC47L), transcript variant 2, mRNA [NM_001127370]
A_23_P433111	2.46E-04	down	-1.869682	SETD9	Homo sapiens SET domain containing 9 (SETD9), transcript variant 1, mRNA [NM_153706]
A_23_P391228	0.001205316	down	-1.7078615	MANEAL	Homo sapiens mannosidase, endo-alpha-like (MANEAL), transcript variant 1, mRNA [NM_001031740]
A_23_P216708	4.57E-04	down	-1.8897929	RFK	Homo sapiens riboflavin kinase (RFK), mRNA [NM_018339]
A_24_P50818	0.028765548	down	-1.574374	GTF3C3	Homo sapiens general transcription factor IIIC, polypeptide 3, 102kDa (GTF3C3), transcript variant 2, mRNA [NM_001206774]
A_23_P397019	1.33E-04	down	-1.8464932	DNAJC25	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 25 (DNAJC25), transcript variant 1, mRNA [NM_001015882]
A_33_P3764802	0.001394787	down	-1.6666409	SIRT5	Homo sapiens sirtuin 5 (SIRT5), transcript variant 1, mRNA [NM_012241]
A_23_P213840	1.09E-05	down	-2.108536	ATP6V0E1	Homo sapiens ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 (ATP6V0E1), mRNA [NM_003945]
A_33_P3296303	4.56E-04	down	-1.7893033	CHMP5	Homo sapiens charged multivesicular body protein 5 (CHMP5), transcript variant 1, mRNA [NM_016410]
A_33_P3691916	0.005721179	down	-1.8983614	FAM13A	Homo sapiens family with sequence similarity 13, member A (FAM13A), transcript variant 1, mRNA [NM_014883]
A_23_P34307	1.52E-04	down	-2.0624316	PIGK	Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class K (PIGK), mRNA [NM_005482]
A_33_P3384543	0.003882607	down	-1.5699551	POMGNT1	Homo sapiens protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-) (POMGNT1), transcript variant 2, mRNA [NM_001243766]
A_33_P3331346	0.005129295	down	-1.6266036	TRIM65	Homo sapiens tripartite motif containing 65 (TRIM65), transcript variant 1, mRNA [NM_173547]
A_24_P497186	5.78E-06	down	-2.4822116	IRF2BP2	Homo sapiens interferon regulatory factor 2 binding protein 2 (IRF2BP2), transcript variant 1, mRNA [NM_182972]
A_23_P210348	8.02E-05	down	-2.0516403	COX7A2L	Homo sapiens cytochrome c oxidase subunit VIIa polypeptide 2 like (COX7A2L), mRNA [NM_004718]
A_33_P3383331	1.75E-04	down	-1.8127848	SLC35A3	Homo sapiens solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3 (SLC35A3), transcript variant 1, mRNA [NM_012243]
A_23_P135499	0.001350839	down	-1.9780691	CLIC4	Homo sapiens chloride intracellular channel 4 (CLIC4), mRNA [NM_013943]
A_33_P3308586	0.028233357	down	-1.5284711	DUXA	Homo sapiens double homeobox A (DUXA), mRNA [NM_001012729]
A_33_P3352103	0.001355397	down	-1.7046136	LYPLAL1	Homo sapiens lysophospholipase-like 1 (LYPLAL1), transcript variant 1, mRNA [NM_138794]
A_23_P34460	8.89E-04	down	-1.7038609	SLC35A3	Homo sapiens solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3 (SLC35A3), transcript variant 1, mRNA [NM_012243]
A_24_P64393	0.003683305	down	-1.8746606	MARCH5	Homo sapiens membrane-associated ring finger (C3HC4) 5 (MARCH5), mRNA [NM_017824]
A_23_P380917	2.18E-04	down	-1.731629	SEC11A	Homo sapiens SEC11 homolog A (S. cerevisiae) (SEC11A), transcript variant 2, mRNA [NM_014300]
A_32_P9842	0.00172932	down	-1.6032037	MTMR14	Homo sapiens myotubularin related protein 14 (MTMR14), transcript variant 1, mRNA [NM_001077526]
A_24_P29733	0.003101886	down	-1.6105455	CDK14	Homo sapiens cyclin-dependent kinase 14 (CDK14), transcript variant 2, mRNA [NM_012395]
A_33_P3367247	1.93E-05	down	-1.9509395	CNTLN	Homo sapiens centlein, centrosomal protein (CNTLN), transcript variant 2, mRNA [NM_001114395]
A_33_P3352822	0.009747215	down	-1.533907	ZNF547	zinc finger protein 547 [Source:HGNC Symbol;Acc:HGNC:26432] [ENST00000282282]
A_23_P11598	3.84E-05	down	-2.0468838	ZNF684	Homo sapiens zinc finger protein 684 (ZNF684), mRNA [NM_152373]
A_32_P131640	0.007988608	down	-1.5758662	SLITRK4	Homo sapiens SLIT and NTRK-like family, member 4 (SLITRK4), transcript variant 2, mRNA [NM_173078]
A_19_P00813077	0.019849852	down	-1.6647884	FAM228B	Homo sapiens family with sequence similarity 228, member B (FAM228B), transcript variant 1, mRNA [NM_001145710]
A_24_P386771	7.96E-04	down	-1.9142342	PPP1CC	Homo sapiens protein phosphatase 1, catalytic subunit, gamma isozyme (PPP1CC), transcript variant 1, mRNA [NM_002710]
A_23_P254756	2.14E-04	down	-2.0911782	CD164	Homo sapiens CD164 molecule, sialomucin (CD164), transcript variant 1, mRNA [NM_006016]
A_24_P383356	0.012089529	down	-1.7893997	SLC39A14	Homo sapiens solute carrier family 39 (zinc transporter), member 14 (SLC39A14), transcript variant 2, mRNA [NM_015359]
A_23_P95050	1.09E-04	down	-1.8302252	ARFIP1	Homo sapiens ADP-ribosylation factor interacting protein 1 (ARFIP1), transcript variant 1, mRNA [NM_001025595]
A_23_P7282	3.88E-04	down	-2.0941825	ELMOD2	Homo sapiens ELMO/CED-12 domain containing 2 (ELMOD2), mRNA [NM_153702]
A_23_P500956	9.60E-04	down	-2.2596512	B3GNT2	Homo sapiens UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2 (B3GNT2), mRNA [NM_006577]
A_33_P3354683	4.08E-04	down	-1.7514489	PIGS	Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class S (PIGS), mRNA [NM_033198]
A_23_P202594	5.08E-04	down	-1.6396537	MCMBP	Homo sapiens minichromosome maintenance complex binding protein (MCMBP), transcript variant 1, mRNA [NM_024834]
A_23_P256473	8.99E-04	down	-2.4724948	SEMA3C	Homo sapiens sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C (SEMA3C), mRNA [NM_006379]
A_24_P106624	0.02940276	down	-1.6967728	MEOX2	Homo sapiens mesenchyme homeobox 2 (MEOX2), mRNA [NM_005924]
A_24_P20200	3.30E-04	down	-1.6833761	PLEKHB2	Homo sapiens pleckstrin homology domain containing, family B (evectins) member 2 (PLEKHB2), transcript variant 8, mRNA [NM_001267066]
A_32_P188860	2.67E-04	down	-2.6958294	IL17RD	Homo sapiens interleukin 17 receptor D (IL17RD), mRNA [NM_017563]
A_23_P367628	0.01877487	down	-1.5776725	C2CD5	Homo sapiens C2 calcium-dependent domain containing 5 (C2CD5), transcript variant 6, mRNA [NM_014802]
A_33_P3360823	7.69E-04	down	-1.6797562	C10orf88	Homo sapiens chromosome 10 open reading frame 88 (C10orf88), mRNA [NM_024942]

A_32_P157481	9.19E-04	down	-1.8339528	ERCC4	Homo sapiens excision repair cross-complementation group 4 (ERCC4), mRNA [NM_005236]
A_33_P3305840	4.77E-04	down	-1.7497599	SRSF7	Homo sapiens serine/arginine-rich splicing factor 7 (SRSF7), transcript variant 2, mRNA [NM_001195446]
A_24_P343255	0.005786987	down	-1.6251799	KLHDC3	Homo sapiens kelch domain containing 3 (KLHDC3), transcript variant 1, mRNA [NM_057161]
A_24_P76666	0.003914672	down	-1.5541993	CSNK2A1	Homo sapiens casein kinase 2, alpha 1 polypeptide (CSNK2A1), transcript variant 1, mRNA [NM_177559]
A_24_P205252	0.007056078	down	-1.9055302	FAM13C	Homo sapiens family with sequence similarity 13, member C (FAM13C), transcript variant 2, mRNA [NM_001001971]
A_33_P3256347	0.006460064	down	-1.6695892	TIMM8B	Homo sapiens translocase of inner mitochondrial membrane 8 homolog B (yeast) (TIMM8B), transcript variant 1, mRNA [NM_012459]
A_32_P136402	1.83E-04	down	-1.8485123	THOC7	Homo sapiens THO complex 7 homolog (Drosophila) (THOC7), transcript variant 1, mRNA [NM_025075]
A_23_P25503	0.002404763	down	-1.7025158	FNDC3A	Homo sapiens fibronectin type III domain containing 3A (FNDC3A), transcript variant 1, mRNA [NM_001079673]
A_23_P206396	9.23E-04	down	-1.6616987	CKLF	Homo sapiens chemokine-like factor (CKLF), transcript variant 5, mRNA [NM_001040138]
A_23_P215778	6.77E-04	down	-1.6722727	DUS4L	Homo sapiens dihydrouridine synthase 4-like (S. cerevisiae) (DUS4L), transcript variant 1, mRNA [NM_181581]
A_24_P71938	0.002625832	down	-1.962533	SMAD1	Homo sapiens SMAD family member 1 (SMAD1), transcript variant 1, mRNA [NM_005900]
A_21_P0000082	4.70E-04	down	-1.705782	LARP4	Homo sapiens La ribonucleoprotein domain family, member 4 (LARP4), transcript variant 2, mRNA [NM_199188]
A_23_P40989	0.002157503	down	-1.6343863	USP13	Homo sapiens ubiquitin specific peptidase 13 (isopeptidase T-3) (USP13), mRNA [NM_003940]
A_23_P202565	1.82E-04	down	-2.3335588	SHOC2	Homo sapiens soc-2 suppressor of clear homolog (C. elegans) (SHOC2), transcript variant 1, mRNA [NM_007373]
A_32_P229132	0.02015422	down	-1.7000505	FMN2	Homo sapiens formin 2 (FMN2), mRNA [NM_020066]
A_23_P156355	4.11E-04	down	-1.7732831	TMEM161B	Homo sapiens transmembrane protein 161B (TMEM161B), transcript variant 2, mRNA [NM_153354]
A_23_P129717	0.009477683	down	-1.6505257	ERI2	Homo sapiens ERI1 exoribonuclease family member 2 (ERI2), transcript variant 2, mRNA [NM_080663]
A_23_P37560	0.009100601	down	-1.5349326	PEX11A	Homo sapiens peroxisomal biogenesis factor 11 alpha (PEX11A), transcript variant 1, mRNA [NM_003847]
A_23_P156907	0.04414691	down	-1.7044303	SOBP	Homo sapiens sine oculis binding protein homolog (Drosophila) (SOBP), mRNA [NM_018013]
A_32_P134209	1.31E-04	down	-2.2488163	ACVR2B	Homo sapiens activin A receptor, type IIB (ACVR2B), mRNA [NM_001106]
A_24_P149124	0.003492135	down	-1.7361398	NREP	Homo sapiens neuronal regeneration related protein (NREP), transcript variant 1, mRNA [NM_004772]
A_22_P00024055	0.036317125	down	-1.8077579	FAM126A	family with sequence similarity 126, member A [Source:HGNC Symbol;Acc:HGNC:24587][ENST00000421730]
A_23_P5389	0.003473536	down	-1.6191713	DPY30	Homo sapiens dpy-30 homolog (C. elegans) (DPY30), mRNA [NM_032574]
A_23_P66777	3.82E-04	down	-1.6983888	CDC27	Homo sapiens cell division cycle 27 (CDC27), transcript variant 2, mRNA [NM_001256]
A_23_P148297	8.65E-04	down	-1.7881492	SH3BGRL	Homo sapiens SH3 domain binding glutamate-rich protein like (SH3BGRL), mRNA [NM_003022]
A_23_P36985	0.04769705	down	-2.1251566	PCDH8	Homo sapiens protocadherin 8 (PCDH8), transcript variant 1, mRNA [NM_002590]
A_23_P253752	5.85E-04	down	-1.9312012	MTFR2	Homo sapiens mitochondrial fission regulator 2 (MTFR2), transcript variant 2, mRNA [NM_138419]
A_23_P1056	0.003460722	down	-1.5636352	GPR89B	Homo sapiens G protein-coupled receptor 89B (GPR89B), mRNA [NM_016334]
A_23_P342000	9.86E-04	down	-2.6548119	RBM11	Homo sapiens RNA binding motif protein 11 (RBM11), mRNA [NM_144770]
A_24_P387869	0.004783765	down	-1.7786258	PKN2	Homo sapiens protein kinase N2 (PKN2), mRNA [NM_006256]
A_33_P3271323	8.69E-04	down	-1.6330377	RHOQ	Homo sapiens ras homolog family member Q (RHOQ), mRNA [NM_012249]
A_23_P211007	3.55E-04	down	-2.5057235	NRIP1	Homo sapiens nuclear receptor interacting protein 1 (NRIP1), mRNA [NM_003489]
A_23_P39561	4.45E-05	down	-2.0027578	UBE2F	Homo sapiens ubiquitin-conjugating enzyme E2F (putative) (UBE2F), transcript variant 1, mRNA [NM_080678]
A_33_P3237403	6.96E-04	down	-1.6544157	ZNF100	Homo sapiens zinc finger protein 100 (ZNF100), mRNA [NM_173531]
A_23_P14876	0.002927972	down	-1.5876609	SRP14	Homo sapiens signal recognition particle 14kDa (homologous Alu RNA binding protein) (SRP14), transcript variant 1, mRNA [NM_003134]
A_33_P3372237	3.73E-04	down	-2.030137	DCAF13	Homo sapiens DDB1 and CUL4 associated factor 13 (DCAF13), mRNA [NM_015420]
A_22_P00014746	4.78E-04	down	-1.6439911	ORC3	Homo sapiens origin recognition complex, subunit 3 (ORC3), transcript variant 2, mRNA [NM_012381]
A_32_P148796	0.015924966	down	-1.5152858	UBXN2B	Homo sapiens UBX domain protein 2B (UBXN2B), mRNA [NM_001077619]
A_24_P218587	0.004089093	down	-1.5226921	MED17	Homo sapiens mediator complex subunit 17 (MED17), mRNA [NM_004268]
A_23_P411814	1.50E-04	down	-2.2204237	OSTC	Homo sapiens oligosaccharyltransferase complex subunit (non-catalytic) (OSTC), transcript variant 1, mRNA [NM_021227]
A_24_P310894	0.003597163	down	-1.51463	CAPZA1	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 1 (CAPZA1), mRNA [NM_006135]
A_23_P337875	0.029851941	down	-1.5015206	PAQR3	Homo sapiens progesterin and adipoQ receptor family member III (PAQR3), mRNA [NM_001040202]
A_33_P3343066	0.019981943	down	-1.7788211	PAX2	Homo sapiens paired box 2 (PAX2), transcript variant c, mRNA [NM_003988]
A_32_P15320	0.00148334	down	-1.5792764	EEF1A1	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA [NM_001402]
A_33_P3396807	9.87E-04	down	-1.9893057	ATG4C	Homo sapiens autophagy related 4C, cysteine peptidase (ATG4C), transcript variant 1, mRNA [NM_032852]
A_24_P172768	2.80E-04	down	-1.9212905	GMFB	Homo sapiens glia maturation factor, beta (GMFB), mRNA [NM_004124]
A_24_P321068	0.003043053	down	-1.5857097	SLC31A1	Homo sapiens solute carrier family 31 (copper transporter), member 1 (SLC31A1), mRNA [NM_001859]
A_24_P143189	0.004290002	down	-1.6768589	TMSB4X	Homo sapiens thymosin beta 4, X-linked (TMSB4X), mRNA [NM_021109]

A_33_P3376546	0.019290425	down	-1.7096794	PTGFR	Homo sapiens prostaglandin F receptor (FP) (PTGFR), transcript variant 2, mRNA [NM_001039585]
A_23_P20732	0.003217954	down	-1.5093096	GTF3C4	Homo sapiens general transcription factor IIIC, polypeptide 4, 90kDa (GTF3C4), mRNA [NM_012204]
A_24_P280684	0.03285814	down	-1.7624606	FBXO40	Homo sapiens F-box protein 40 (FBXO40), mRNA [NM_016298]
A_33_P3348288	0.007255319	down	-1.7534945	RHOBTB1	Homo sapiens Rho-related BTB domain containing 1 (RHOBTB1), transcript variant 4, mRNA [NM_001242359]
A_22_P00010860	0.001293637	down	-1.7466143	SEC22B	Homo sapiens SEC22 vesicle trafficking protein homolog B (S. cerevisiae) (gene/pseudogene) (SEC22B), mRNA [NM_004892]
A_32_P108870	0.009712405	down	-1.8473197	PMP2	Homo sapiens peripheral myelin protein 2 (PMP2), mRNA [NM_002677]
A_23_P61280	0.003110947	down	-1.673897	COPG2	Homo sapiens coatomer protein complex, subunit gamma 2 (COPG2), transcript variant 1, mRNA [NM_012133]
A_24_P305570	0.01510685	down	-1.5005257	RIN2	Homo sapiens Ras and Rab interactor 2 (RIN2), transcript variant 2, mRNA [NM_018993]
A_23_P42802	0.007784621	down	-1.9834629	PDIA4	Homo sapiens protein disulfide isomerase family A, member 4 (PDIA4), mRNA [NM_004911]
A_32_P69166	0.019957414	down	-1.5232512	ANKRD42	Homo sapiens ankyrin repeat domain 42 (ANKRD42), transcript variant 4, mRNA [NM_182603]
A_24_P401645	0.002919076	down	-1.5669408	AP4S1	Homo sapiens adaptor-related protein complex 4, sigma 1 subunit (AP4S1), transcript variant 5, mRNA [NM_001254728]
A_33_P3278664	0.020958224	down	-1.8054029	PDLIM5	Homo sapiens PDZ and LIM domain 5 (PDLIM5), transcript variant 4, mRNA [NM_001011515]
A_24_P399942	0.001702754	down	-1.8668516	ATP11C	Homo sapiens ATPase, class VI, type 11C (ATP11C), transcript variant 1, mRNA [NM_173694]
A_23_P361569	9.66E-04	down	-1.723056	SLC35F5	Homo sapiens solute carrier family 35, member F5 (SLC35F5), transcript variant 1, mRNA [NM_025181]
A_32_P87568	0.011359899	down	-1.82944	ENAH	Homo sapiens enabled homolog (Drosophila) (ENAH), transcript variant 1, mRNA [NM_001008493]
A_33_P3390739	0.001051511	down	-1.6348126	ST13	Homo sapiens suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein) (ST13), transcript variant 1, mRNA [NM_003932]
A_23_P313389	0.00156574	down	-1.6601971	UGCG	Homo sapiens UDP-glucose ceramide glucosyltransferase (UGCG), mRNA [NM_003358]
A_24_P56240	3.51E-05	down	-2.3049533	CPNE8	Homo sapiens copine VIII (CPNE8), mRNA [NM_153634]
A_24_P268893	1.42E-04	down	-1.7673473	THAP6	Homo sapiens THAP domain containing 6 (THAP6), mRNA [NM_144721]
A_24_P185986	0.001327338	down	-1.5979077	UPRT	Homo sapiens uracil phosphoribosyltransferase (FUR1) homolog (S. cerevisiae) (UPRT), transcript variant 1, mRNA [NM_145052]
A_23_P202501	0.003813014	down	-1.6895603	RNLS	Homo sapiens renalase, FAD-dependent amine oxidase (RNLS), transcript variant 1, mRNA [NM_001031709]
A_24_P374634	0.004193443	down	-1.5754315	STAU2	Homo sapiens stau protein double-stranded RNA binding protein 2 (STAU2), transcript variant 1, mRNA [NM_001164380]
A_32_P16854	4.21E-04	down	-1.9005301	ANAPC13	Homo sapiens anaphase promoting complex subunit 13 (ANAPC13), transcript variant 1, mRNA [NM_015391]
A_24_P336848	0.001059087	down	-1.8213383	ACYP2	Homo sapiens acylphosphatase 2, muscle type (ACYP2), mRNA [NM_138448]
A_23_P97700	4.43E-04	down	-2.1376214	TXNIP	Homo sapiens thioredoxin interacting protein (TXNIP), mRNA [NM_006472]
A_32_P148672	0.001095258	down	-1.6103512	SNRPD1	Homo sapiens small nuclear ribonucleoprotein D1 polypeptide 16kDa (SNRPD1), transcript variant 1, mRNA [NM_006938]
A_23_P25073	6.77E-04	down	-1.7791601	MRPS35	Homo sapiens mitochondrial ribosomal protein S35 (MRPS35), transcript variant 1, mRNA [NM_021821]
A_33_P3230658	0.015488293	down	-1.6184993	TSNAX	Homo sapiens translin-associated factor X (TSNAX), mRNA [NM_005999]
A_23_P426021	0.003143756	down	-1.6790211	SEL1L3	Homo sapiens sel-1 suppressor of lin-12-like 3 (C. elegans) (SEL1L3), transcript variant 1, mRNA [NM_015187]
A_33_P3412095	0.006397964	down	-1.7758703	PEX7	Homo sapiens peroxisomal biogenesis factor 7 (PEX7), mRNA [NM_000288]
A_24_P941557	0.03094109	down	-1.8845837	MVB12B	Homo sapiens multivesicular body subunit 12B (MVB12B), transcript variant 2, mRNA [NM_001011703]
A_24_P639505	5.82E-04	down	-1.8123168	STX6	Homo sapiens syntaxin 6 (STX6), transcript variant 1, mRNA [NM_005819]
A_32_P515088	0.010752392	down	-1.5047975	KDSR	Homo sapiens 3-ketodihydrosphingosine reductase (KDSR), mRNA [NM_002035]
A_24_P366526	0.001319003	down	-1.7023845	SYNGR2	Homo sapiens synaptogyrin 2, mRNA (cDNA clone MGC:102914 IMAGE:4746277), complete cds. [BC105992]
A_24_P88800	1.48E-04	down	-2.1351974	COX7A2L	Homo sapiens cytochrome c oxidase subunit VIIa polypeptide 2 like (COX7A2L), mRNA [NM_004718]
A_32_P18547	0.001683982	down	-2.280407	YBEY	Homo sapiens ybeY metalloproteinase (putative) (YBEY), transcript variant 1, mRNA [NM_058181]
A_33_P3371055	0.001585499	down	-1.5332575	RAB1A	Homo sapiens RAB1A, member RAS oncogene family (RAB1A), transcript variant 1, mRNA [NM_004161]
A_23_P205611	9.51E-04	down	-1.8102008	GMFB	Homo sapiens glia maturation factor, beta (GMFB), mRNA [NM_004124]
A_23_P373054	0.004705644	down	-1.6636078	TCAIM	Homo sapiens T cell activation inhibitor, mitochondrial (TCAIM), transcript variant 1, mRNA [NM_173826]
A_23_P424080	1.49E-04	down	-2.1874216	YIPF4	Homo sapiens Yip1 domain family, member 4 (YIPF4), mRNA [NM_032312]
A_32_P117170	1.70E-04	down	-2.0200002	NAPEPLD	Homo sapiens N-acyl phosphatidylethanolamine phospholipase D (NAPEPLD), transcript variant 1, mRNA [NM_001122838]
A_33_P3360942	0.001401744	down	-1.8754101	SCAMP1	Homo sapiens secretory carrier membrane protein 1 (SCAMP1), transcript variant 1, mRNA [NM_004866]
A_33_P3411296	0.007447466	down	-1.6696577	PURA	Homo sapiens purine-rich element binding protein A (PURA), mRNA [NM_005859]
A_32_P181222	0.041754752	down	-1.8843414	KCNMA1	Homo sapiens potassium channel, calcium activated large conductance subfamily M alpha, member 1 (KCNMA1), transcript variant 2, mRNA [NM_002247]
A_23_P65217	5.52E-04	down	-2.432639	TGDS	Homo sapiens TDP-glucose 4,6-dehydratase (TGDS), mRNA [NM_014305]
A_23_P72117	0.001008616	down	-2.3955064	SMPDL3A	Homo sapiens sphingomyelin phosphodiesterase, acid-like 3A (SMPDL3A), transcript variant 1, mRNA [NM_006714]
A_23_P48295	0.005418636	down	-1.6269993	CDADC1	Homo sapiens cytidine and dCMP deaminase domain containing 1 (CDADC1), transcript variant 1, mRNA [NM_030911]
A_33_P3295578	1.31E-04	down	-2.171259	TCEAL8	Homo sapiens transcription elongation factor A (SII)-like 8 (TCEAL8), transcript variant 1, mRNA [NM_153333]
A_33_P3401428	1.21E-04	down	-2.0722916	TMEM38B	Homo sapiens transmembrane protein 38B (TMEM38B), mRNA [NM_018112]

A_23_P90911	5.41E-04	down	-1.6712377	RDH14	Homo sapiens retinol dehydrogenase 14 (all-trans/9-cis/11-cis) (RDH14), mRNA [NM_020905]
A_24_P71904	0.003517939	down	-1.8131732	HPGD	Homo sapiens hydroxyprostaglandin dehydrogenase 15-(NAD) (HPGD), transcript variant 1, mRNA [NM_000860]
A_33_P3347343	0.001076808	down	-2.1363282	CCDC102B	Homo sapiens coiled-coil domain containing 102B (CCDC102B), transcript variant 1, mRNA [NM_001093729]
A_23_P121825	8.05E-04	down	-1.7496064	TRAPPC13	Homo sapiens trafficking protein particle complex 13 (TRAPPC13), transcript variant 2, mRNA [NM_024941]
A_32_P92505	8.07E-04	down	-1.7843529	LCLAT1	Homo sapiens lysocardiolipin acyltransferase 1 (LCLAT1), transcript variant 1, mRNA [NM_182551]
A_23_P120237	0.005330632	down	-1.5828903	STARD7	Homo sapiens StAR-related lipid transfer (START) domain containing 7 (STARD7), mRNA [NM_020151]
A_24_P303594	2.89E-04	down	-1.9920701	ACTR3B	Homo sapiens ARP3 actin-related protein 3 homolog B (yeast) (ACTR3B), transcript variant 2, mRNA [NM_001040135]
A_23_P64129	6.14E-05	down	-1.8892105	HTATIP2	Homo sapiens HIV-1 Tat interactive protein 2, 30kDa (HTATIP2), transcript variant 2, mRNA [NM_006410]
A_33_P3661631	8.20E-04	down	-1.7659211	PCBD2	Homo sapiens pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2 (PCBD2), mRNA [NM_032151]
A_23_P9402	0.00965714	down	-1.8104725	CNTFR	Homo sapiens ciliary neurotrophic factor receptor (CNTFR), transcript variant 1, mRNA [NM_147164]
A_23_P103131	0.002947945	down	-1.6234128	MIEF1	Homo sapiens mitochondrial elongation factor 1 (MIEF1), mRNA [NM_019008]
A_24_P347378	0.002863775	down	-1.6730016	ALOX5AP	Homo sapiens arachidonate 5-lipoxygenase-activating protein (ALOX5AP), transcript variant 1, mRNA [NM_001629]
A_33_P3284463	3.15E-04	down	-1.6771135	ASAH1	Homo sapiens N-acylsphingosine amidohydrolase (acid ceramidase) 1 (ASAH1), transcript variant 1, mRNA [NM_177924]
A_33_P3327657	0.010565106	down	-1.8582983	SUSD4	sushi domain containing 4 [Source:HGNC Symbol;Acc:HGNC:25470] [ENST00000342943]
A_23_P356565	0.002348326	down	-1.5429004	RRP8	Homo sapiens ribosomal RNA processing 8, methyltransferase, homolog (yeast) (RRP8), mRNA [NM_015324]
A_23_P6980	0.007485007	down	-1.6498977	ZNF717	Homo sapiens zinc finger protein 717 (ZNF717), transcript variant 4, mRNA [NM_001290210]
A_23_P259451	7.18E-04	down	-1.7194617	LSM6	Homo sapiens LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM6), mRNA [NM_007080]
A_33_P3327108	4.10E-04	down	-1.7509899	NLK	Homo sapiens nemo-like kinase (NLK), mRNA [NM_016231]
A_23_P86838	4.25E-05	down	-1.9321874	SLC36A4	Homo sapiens solute carrier family 36 (proton/amino acid symporter), member 4 (SLC36A4), transcript variant 1, mRNA [NM_152313]
A_33_P3318092	0.03529325	down	-1.9662795	PPP1R3A	Homo sapiens protein phosphatase 1, regulatory subunit 3A (PPP1R3A), mRNA [NM_002711]
A_24_P398691	0.001599716	down	-1.9418695	ABHD13	Homo sapiens abhydrolase domain containing 13 (ABHD13), mRNA [NM_032859]
A_32_P117313	4.10E-04	down	-1.9664416	TRIQQ	Homo sapiens triple QxxK/R motif containing (TRIQQ), transcript variant 1, mRNA [NM_001171796]
A_23_P95594	0.00241868	down	-1.5309469	NAT1	Homo sapiens N-acetyltransferase 1 (arylamine N-acetyltransferase) (NAT1), transcript variant 5, mRNA [NM_000662]
A_24_P286898	3.76E-04	down	-1.8174169	MAPK8	Homo sapiens mitogen-activated protein kinase 8 (MAPK8), transcript variant JNK1-b2, mRNA [NM_001278547]
A_23_P422851	0.001130739	down	-2.083238	CABLES1	Homo sapiens Cdk5 and Abl enzyme substrate 1 (CABLES1), transcript variant 1, mRNA [NM_138375]
A_33_P3235053	0.03484775	down	-1.5680453	TRIM47	Homo sapiens tripartite motif containing 47 (TRIM47), mRNA [NM_033452]
A_23_P7732	7.62E-04	down	-1.8040197	CETN3	Homo sapiens centrin, EF-hand protein, 3 (CETN3), transcript variant 2, mRNA [NM_004365]
A_23_P14734	0.001454877	down	-1.7018162	RPS27L	Homo sapiens ribosomal protein S27-like (RPS27L), mRNA [NM_015920]
A_23_P47292	0.007111504	down	-1.9550035	MMP20	Homo sapiens matrix metalloproteinase 20 (MMP20), mRNA [NM_004771]
A_33_P3388948	0.001734825	down	-1.690412	SNX30	Homo sapiens sorting nexin family member 30 (SNX30), mRNA [NM_001012994]
A_24_P64918	0.005869858	down	-1.5517263	ZBTB1	Homo sapiens zinc finger and BTB domain containing 1 (ZBTB1), transcript variant 2, mRNA [NM_014950]
A_23_P62659	0.002460965	down	-1.6891221	PPT1	Homo sapiens palmitoyl-protein thioesterase 1 (PPT1), transcript variant 1, mRNA [NM_000310]
A_33_P3353295	0.015300003	down	-1.7737309	PHOX2A	Homo sapiens paired-like homeobox 2a (PHOX2A), mRNA [NM_005169]
A_23_P42514	0.005222766	down	-1.6120778	C6orf62	Homo sapiens chromosome 6 open reading frame 62 (C6orf62), mRNA [NM_030939]
A_23_P344853	0.007010942	down	-1.5420911	WDR43	Homo sapiens WD repeat domain 43 (WDR43), mRNA [NM_015131]
A_32_P175539	6.54E-04	down	-1.9516711	RCN2	Homo sapiens reticulocalbin 2, EF-hand calcium binding domain (RCN2), transcript variant 1, mRNA [NM_002902]
A_22_P00007770	0.002564711	down	-2.1095152	SPOPL	Homo sapiens speckle-type POZ protein-like (SPOPL), mRNA [NM_001001664]
A_24_P19810	0.001140884	down	-1.6303401	PPCS	Homo sapiens phosphopantothienoylcysteine synthetase (PPCS), transcript variant 1, mRNA [NM_024664]
A_23_P372925	9.68E-04	down	-1.8475075	CIPC	Homo sapiens CLOCK-interacting pacemaker (CIPC), mRNA [NM_033426]
A_33_P3360728	0.02998128	down	-1.5164709	BLVRB	Homo sapiens biliverdin reductase B (BLVRB), mRNA [NM_000713]
A_22_P00022232	0.002941264	down	-1.5396516	RCL1	Homo sapiens RNA terminal phosphate cyclase-like 1 (RCL1), transcript variant 1, mRNA [NM_005772]
A_33_P3252605	0.00229015	down	-1.9919543	CYP2U1	Homo sapiens cytochrome P450, family 2, subfamily U, polypeptide 1 (CYP2U1), mRNA [NM_183075]
A_23_P102542	0.001808643	down	-1.6499243	AFTPH	Homo sapiens atrophilin (AFTPH), transcript variant 1, mRNA [NM_203437]
A_24_P140827	1.87E-04	down	-1.9350289	PCMT1	Homo sapiens protein-L-isoaspartate (D-aspartate) O-methyltransferase (PCMT1), transcript variant 1, mRNA [NM_005389]
A_23_P138725	0.011814101	down	-1.5701058	MARVELD1	Homo sapiens MARVEL domain containing 1 (MARVELD1), mRNA [NM_031484]
A_33_P3220381	9.76E-05	down	-1.9951612	TRAPPC13	Homo sapiens trafficking protein particle complex 13 (TRAPPC13), transcript variant 5, mRNA [NM_001243737]
A_33_P3219256	0.001382538	down	-1.7405906	BMPR1A	Homo sapiens bone morphogenetic protein receptor, type IA (BMPR1A), mRNA [NM_004329]
A_23_P60259	9.03E-05	down	-2.1781662	TMEM38B	Homo sapiens transmembrane protein 38B (TMEM38B), mRNA [NM_018112]

A_23_P29924	0.007039052	down	-1.5693129	TMEM128	Homo sapiens transmembrane protein 128 (TMEM128), transcript variant 3, mRNA [NM_032927]
A_33_P3269278	0.005445865	down	-1.7676889	ZNF461	Homo sapiens zinc finger protein 461 (ZNF461), transcript variant 1, mRNA [NM_153257]
A_23_P72968	0.01839304	down	-1.735714	ARHGAP36	Homo sapiens Rho GTPase activating protein 36 (ARHGAP36), transcript variant 1, mRNA [NM_144967]
A_32_P9382	0.001365565	down	-1.7334327	MZT1	Homo sapiens mitotic spindle organizing protein 1 (MZT1), mRNA [NM_001071775]
A_33_P3309804	5.97E-04	down	-2.050244	EID1	Homo sapiens EP300 interacting inhibitor of differentiation 1 (EID1), mRNA [NM_014335]
A_33_P3255766	0.003608309	down	-1.6281413	NIF3L1	Homo sapiens NIF3 NGG1 interacting factor 3-like 1 (S. cerevisiae) (NIF3L1), transcript variant 4, mRNA [NM_001142356]
A_33_P3232458	0.004489453	down	-1.6169965	CLIP4	Homo sapiens CAP-GLY domain containing linker protein family, member 4 (CLIP4), transcript variant 1, mRNA [NM_024692]
A_23_P390621	0.012602697	down	-1.8089666	PACRGL	Homo sapiens PARK2 co-regulated-like (PACRGL), transcript variant 1, mRNA [NM_145048]
A_24_P251534	0.001415565	down	-2.0200567	CTDSPL	Homo sapiens CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like (CTDSPL), transcript variant 1, mRNA [NM_001008392]
A_24_P39101	2.26E-04	down	-1.7269365	KCTD10	Homo sapiens potassium channel tetramerization domain containing 10 (KCTD10), mRNA [NM_031954]
A_23_P13554	0.001114017	down	-1.6970731	ALG8	Homo sapiens ALG8, alpha-1,3-glucosyltransferase (ALG8), transcript variant 2, mRNA [NM_001007027]
A_24_P108291	0.005369727	down	-1.7499481	IMPACT	Homo sapiens impact RWD domain protein (IMPACT), mRNA [NM_018439]
A_23_P259090	6.57E-04	down	-2.518917	NUDT12	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 12 (NUDT12), transcript variant 1, mRNA [NM_031438]
A_23_P215341	0.002262275	down	-1.6253657	FKBP14	Homo sapiens FK506 binding protein 14, 22 kDa (FKBP14), transcript variant 1, mRNA [NM_017946]
A_23_P165937	0.001658236	down	-1.634659	DSN1	Homo sapiens DSN1, MIS12 kinetochore complex component (DSN1), transcript variant 3, mRNA [NM_024918]
A_33_P3262452	0.008377839	down	-1.5020471	PEX26	Homo sapiens peroxisomal biogenesis factor 26 (PEX26), transcript variant 2, mRNA [NM_001127649]
A_23_P117933	0.001501886	down	-1.6545559	GCSH	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH), transcript variant 1, mRNA [NM_004483]
A_23_P385126	0.002717519	down	-1.7449409	DEPDC7	Homo sapiens DEP domain containing 7 (DEPDC7), transcript variant 2, mRNA [NM_139160]
A_24_P414786	0.00177492	down	-1.7838527	CDC40	Homo sapiens cell division cycle 40 (CDC40), mRNA [NM_015891]
A_24_P300483	0.00413924	down	-1.6875272	C7orf25	Homo sapiens chromosome 7 open reading frame 25 (C7orf25), transcript variant 2, mRNA [NM_024054]
A_23_P88201	0.004882769	down	-1.5506709	PPP2R3C	Homo sapiens protein phosphatase 2, regulatory subunit B", gamma (PPP2R3C), mRNA [NM_017917]
A_21_P0011842	3.73E-05	down	-1.9165671	EEF1E1	Homo sapiens eukaryotic translation elongation factor 1 epsilon 1 (EEF1E1), transcript variant 2, mRNA [NM_001135650]
A_33_P3832852	0.006882502	down	-1.5074788	HAUS2	Homo sapiens HAUS augmin-like complex, subunit 2 (HAUS2), transcript variant 1, mRNA [NM_018097]
A_32_P110872	0.002679857	down	-1.7644105	GGACT	Homo sapiens gamma-glutamylamine cyclotransferase (GGACT), transcript variant 1, mRNA [NM_033110]
A_24_P290692	0.018160753	down	-1.7358022	COG6	Homo sapiens component of oligomeric golgi complex 6 (COG6), transcript variant 2, mRNA [NM_001145079]
A_33_P3420530	0.017310496	down	-1.7552056	GAD2	Homo sapiens glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa) (GAD2), transcript variant 2, mRNA [NM_001134366]
A_23_P394448	2.17E-04	down	-2.0721269	DPY19L1	Homo sapiens dpy-19-like 1 (C. elegans) (DPY19L1), mRNA [NM_015283]
A_24_P795594	2.83E-04	down	-2.2834642	ALG9	Homo sapiens ALG9, alpha-1,2-mannosyltransferase (ALG9), transcript variant 3, mRNA [NM_001077691]
A_33_P3236157	3.54E-04	down	-1.8503175	UNG	Homo sapiens uracil-DNA glycosylase (UNG), transcript variant 1, mRNA [NM_003362]
A_24_P337239	0.017941633	down	-1.7544032	FGF5	Homo sapiens fibroblast growth factor 5 (FGF5), transcript variant 1, mRNA [NM_004464]
A_33_P3379268	0.002601189	down	-1.7412462	SCIMP	Homo sapiens SLP adaptor and CSK interacting membrane protein (SCIMP), transcript variant 1, mRNA [NM_207103]
A_24_P942481	0.030297833	down	-1.5840032	GPR180	Homo sapiens G protein-coupled receptor 180 (GPR180), mRNA [NM_180989]
A_33_P3405980	0.015748555	down	-1.7356468	SULT6B1	Homo sapiens sulfotransferase family, cytosolic, 6B, member 1 (SULT6B1), mRNA [NM_001032377]
A_33_P3303449	0.009237544	down	-1.6623312	LEPR	Homo sapiens leptin receptor (LEPR), transcript variant 5, mRNA [NM_001198688]
A_23_P431789	4.40E-04	down	-1.6017084	ARF4	Homo sapiens ADP-ribosylation factor 4 (ARF4), mRNA [NM_001660]
A_24_P398898	1.45E-04	down	-2.162422	MORF4L1	Homo sapiens mortality factor 4 like 1 (MORF4L1), transcript variant 2, mRNA [NM_206839]
A_23_P47377	1.47E-04	down	-1.8088303	HSD17B12	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 12 (HSD17B12), mRNA [NM_016142]
A_24_P260101	0.009311028	down	-1.7814159	MME	Homo sapiens membrane metallo-endopeptidase (MME), transcript variant 2b, mRNA [NM_007289]
A_23_P4474	3.16E-05	down	-2.1758552	IER3IP1	Homo sapiens immediate early response 3 interacting protein 1 (IER3IP1), mRNA [NM_016097]
A_22_P00007309	0.00875768	down	-2.2279367	CDC40	cell division cycle 40 [Source:HGNC Symbol;Acc:HGNC:17350] [ENST00000445340]
A_23_P302634	0.015009652	down	-1.713977	OTOGL	Homo sapiens otogelin-like (OTOGL), mRNA [NM_173591]
A_24_P763243	0.003453483	down	-1.5111316	EEF1A1	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA [NM_001402]
A_23_P93562	0.011917938	down	-1.7673352	SESN1	Homo sapiens sestrin 1 (SESN1), transcript variant 1, mRNA [NM_014454]
A_33_P3264419	0.001114706	down	-1.6225891	YTHDF3	Homo sapiens YTH N(6)-methyladenosine RNA binding protein 3 (YTHDF3), transcript variant 2, mRNA [NM_001277813]
A_23_P27306	0.009205298	down	-2.5319636	COLEC12	Homo sapiens collectin sub-family member 12 (COLEC12), mRNA [NM_130386]
A_24_P269432	5.22E-04	down	-1.7665817	BET1	Homo sapiens Bet1 golgi vesicular membrane trafficking protein (BET1), mRNA [NM_005868]

A_22_P00022439	0.030786326	down	-1.6580518	TBX18	T-box 18 [Source:HGNC Symbol;Acc:HGNC:11595] [ENST00000330469]
A_33_P3328659	0.01243974	down	-1.7201309	CELSR1	Homo sapiens cadherin, EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA [NM_014246]
A_33_P3272828	2.23E-04	down	-1.721219	RAD1	Homo sapiens RAD1 checkpoint DNA exonuclease (RAD1), transcript variant 1, mRNA [NM_002853]
A_23_P73413	0.0296845	down	-1.6061351	SLC26A7	Homo sapiens solute carrier family 26 (anion exchanger), member 7 (SLC26A7), transcript variant 1, mRNA [NM_052832]
A_33_P3318852	0.041509118	down	-1.5457792	TBC1D8B	Homo sapiens TBC1 domain family, member 8B (with GRAM domain) (TBC1D8B), transcript variant 2, mRNA [NM_198881]
A_23_P111583	0.008640613	down	-1.7669811	CD36	Homo sapiens CD36 molecule (thrombospondin receptor) (CD36), transcript variant 2, mRNA [NM_001001547]
A_23_P104876	0.002732796	down	-1.6779752	SPA17	Homo sapiens sperm autoantigenic protein 17 (SPA17), mRNA [NM_017425]
A_23_P156842	6.85E-05	down	-1.8895062	EEF1E1	Homo sapiens eukaryotic translation elongation factor 1 epsilon (EEF1E1), transcript variant 1, mRNA [NM_004280]
A_24_P193498	2.55E-05	down	-1.9854699	TM2D3	Homo sapiens TM2 domain containing 3 (TM2D3), transcript variant 1, mRNA [NM_078474]
A_24_P177948	0.00859285	down	-3.3996565	DPY19L2	Homo sapiens dpy-19-like 2 (C. elegans) (DPY19L2), mRNA [NM_173812]
A_21_P0011126	0.002283061	down	-1.5671636	NUS1	Homo sapiens nuclear undecaprenyl pyrophosphate synthase 1 homolog (S. cerevisiae) (NUS1), mRNA [NM_138459]
A_33_P3376214	0.006286959	down	-1.6254603	FMO5	Homo sapiens flavin containing monooxygenase 5 (FMO5), transcript variant 2, mRNA [NM_001144829]
A_33_P3359801	0.01063023	down	-1.8234929	NKX2-4	Homo sapiens NK2 homeobox 4 (NKX2-4), mRNA [NM_033176]
A_32_P94160	0.009893405	down	-1.836222	PRKAA2	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2), mRNA [NM_006252]
A_23_P125680	0.010665849	down	-1.8186457	TMEM255A	Homo sapiens transmembrane protein 255A (TMEM255A), transcript variant 1, mRNA [NM_017938]
A_23_P390734	7.74E-04	down	-1.8852665	FGFR1OP2	Homo sapiens FGFR1 oncogene partner 2 (FGFR1OP2), transcript variant 1, mRNA [NM_015633]
A_23_P208208	0.008424628	down	-1.543603	ZNF649	Homo sapiens zinc finger protein 649 (ZNF649), mRNA [NM_023074]
A_23_P419624	0.002310255	down	-1.5755292	BLCAP	Homo sapiens bladder cancer associated protein (BLCAP), transcript variant 1, mRNA [NM_006698]
A_23_P28507	5.13E-04	down	-1.8798378	MGAT4A	Homo sapiens mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A (MGAT4A), transcript variant 1, mRNA [NM_012214]
A_24_P163537	0.010031782	down	-1.6121678	TMED4	Homo sapiens transmembrane emp24 protein transport domain containing 4 (TMED4), transcript variant 1, mRNA [NM_182547]
A_32_P405973	0.013470371	down	-1.7780782	ADCY2	Homo sapiens adenylate cyclase 2 (brain) (ADCY2), mRNA [NM_020546]
A_24_P8768	3.11E-04	down	-1.7891247	MRPL20	Homo sapiens mitochondrial ribosomal protein L20 (MRPL20), mRNA [NM_017971]
A_23_P63908	3.61E-04	down	-2.045136	TRUB1	Homo sapiens TruB pseudouridine (psi) synthase family member 1 (TRUB1), mRNA [NM_139169]
A_23_P5685	0.016233455	down	-2.0970209	TBR1	Homo sapiens T-box, brain, 1 (TBR1), mRNA [NM_006593]
A_23_P7397	0.012510111	down	-1.7910368	PCDHB10	Homo sapiens protocadherin beta 10 (PCDHB10), mRNA [NM_018930]
A_24_P112941	0.002127911	down	-2.2978528	LINGO1	Homo sapiens leucine rich repeat and Ig domain containing 1 (LINGO1), transcript variant 1, mRNA [NM_032808]
A_33_P3368855	0.009464365	down	-1.7247219	GPC5	Homo sapiens glypican 5 (GPC5), mRNA [NM_004466]
A_33_P3351087	0.015276933	down	-1.7815415	PRKG1	protein kinase, cGMP-dependent, type I [Source:HGNC Symbol;Acc:HGNC:9414] [ENST00000373976]
A_24_P409857	1.63E-05	down	-2.1293395	HMGN1	Homo sapiens high mobility group nucleosome binding domain 1 (HMGN1), mRNA [NM_004965]
A_23_P14458	0.006166799	down	-1.5653917	L3HYPDH	Homo sapiens L-3-hydroxyproline dehydratase (trans-) (L3HYPDH), mRNA [NM_144581]
A_23_P79108	0.010003028	down	-1.8558859	ATP8B3	Homo sapiens ATPase, aminophospholipid transporter, class I, type 8B, member 3 (ATP8B3), transcript variant 1, mRNA [NM_138813]
A_33_P3357516	0.014741279	down	-1.7919313	SLC10A7	Homo sapiens solute carrier family 10, member 7 (SLC10A7), transcript variant 3, mRNA [NM_032128]
A_23_P255076	1.32E-04	down	-1.9944695	RWDD2A	Homo sapiens RWD domain containing 2A (RWDD2A), mRNA [NM_033411]
A_24_P354337	0.006089656	down	-1.6281128	ARL6	Homo sapiens ADP-ribosylation factor-like 6 (ARL6), transcript variant 1, mRNA [NM_032146]
A_23_P259521	2.15E-04	down	-1.7723249	WDR41	Homo sapiens WD repeat domain 41 (WDR41), mRNA [NM_018268]
A_24_P143171	0.007665004	down	-2.1974561	TMEM47	Homo sapiens transmembrane protein 47 (TMEM47), mRNA [NM_031442]
A_24_P382253	5.02E-04	down	-1.799878	RPRD1A	Homo sapiens regulation of nuclear pre-mRNA domain containing 1A (RPRD1A), transcript variant 1, mRNA [NM_018170]
A_23_P257131	0.014403521	down	-1.5644765	PEX13	Homo sapiens peroxisomal biogenesis factor 13 (PEX13), mRNA [NM_002618]
A_33_P3333982	0.007356623	down	-2.1952763	PDE4DIP	Homo sapiens phosphodiesterase 4D interacting protein (PDE4DIP), transcript variant 3, mRNA [NM_022359]
A_24_P107291	0.00276237	down	-1.5372126	PPP2R1B	Homo sapiens protein phosphatase 2, regulatory subunit A, beta (PPP2R1B), transcript variant 2, mRNA [NM_181699]
A_24_P265832	2.40E-05	down	-2.3227031	SUCNR1	Homo sapiens succinate receptor 1 (SUCNR1), mRNA [NM_033050]
A_23_P87591	8.36E-05	down	-2.03247	YEATS4	Homo sapiens YEATS domain containing 4 (YEATS4), transcript variant 1, mRNA [NM_006530]
A_24_P371281	0.015795749	down	-1.7528958	SLC35G2	Homo sapiens solute carrier family 35, member G2 (SLC35G2), transcript variant 1, mRNA [NM_025246]
A_23_P124905	0.02508057	down	-2.3951204	NPTX1	Homo sapiens neuronal pentraxin I (NPTX1), mRNA [NM_002522]
A_23_P133691	0.003467773	down	-1.5606098	RRAGD	Homo sapiens Ras-related GTP binding D (RRAGD), mRNA [NM_021244]
A_33_P3311956	4.94E-04	down	-2.5929248	FEZ2	Homo sapiens fasciculation and elongation protein zeta 2 (zyglin II) (FEZ2), transcript variant 2, mRNA [NM_001042548]
A_33_P3301034	0.002413777	down	-1.8107506	LRRC28	Homo sapiens leucine rich repeat containing 28 (LRRC28), transcript variant 2, mRNA [NM_001284400]
A_23_P128470	4.00E-04	down	-1.9526724	CLEC12A	Homo sapiens C-type lectin domain family 12, member A (CLEC12A), transcript variant 1, mRNA [NM_138337]
A_33_P3303146	4.17E-04	down	-1.8907984	ATG4C	Homo sapiens autophagy related 4C, cysteine peptidase (ATG4C), transcript variant 1, mRNA [NM_032852]
A_23_P46871	0.00513178	down	-1.6026182	SLC29A3	Homo sapiens solute carrier family 29 (equilibrative nucleoside transporter), member 3 (SLC29A3), transcript variant 1, mRNA [NM_018344]

A_24_P91991	0.007747031	down	-2.2179146	NAT8L	Homo sapiens N-acetyltransferase 8-like (GCN5-related, putative) (NAT8L), mRNA [NM_178557]
A_24_P372562	1.88E-04	down	-2.0315228	PTPMT1	Homo sapiens protein tyrosine phosphatase, mitochondrial 1 (PTPMT1), transcript variant 1, mRNA [NM_175732]
A_23_P327022	3.14E-04	down	-2.0093799	MDFIC	Homo sapiens MyoD family inhibitor domain containing (MDFIC), transcript variant 1, mRNA [NM_199072]
A_23_P74663	5.73E-04	down	-1.7416978	TAF1A	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48kDa (TAF1A), transcript variant 1, mRNA [NM_005681]
A_23_P1676	0.00121662	down	-1.8750802	TMEM218	Homo sapiens transmembrane protein 218 (TMEM218), transcript variant 1, mRNA [NM_001258243]
A_24_P548866	1.42E-04	down	-2.0663052	HIGD1A	Homo sapiens HIG1 hypoxia inducible domain family, member 1A (HIGD1A), transcript variant 1, mRNA [NM_001099668]
A_23_P255663	7.90E-06	down	-2.44252	MANEA	Homo sapiens mannosidase, endo-alpha (MANEA), mRNA [NM_024641]
A_23_P144476	2.65E-04	down	-2.6450794	SPRY1	Homo sapiens sprouty homolog 1, antagonist of FGF signaling (Drosophila) (SPRY1), transcript variant 2, mRNA [NM_199327]
A_23_P102331	0.013213347	down	-1.8142954	SCN7A	Homo sapiens sodium channel, voltage gated, type VII alpha subunit (SCN7A), transcript variant 1, mRNA [NM_002976]
A_33_P3240512	7.63E-04	down	-1.8801076	KCTD12	Homo sapiens potassium channel tetramerization domain containing 12 (KCTD12), mRNA [NM_138444]
A_23_P205584	1.32E-04	down	-2.0387456	JKAMP	Homo sapiens JNK1/MAPK8-associated membrane protein (JKAMP), transcript variant 3, mRNA [NM_001284201]
A_23_P27215	5.28E-04	down	-1.6662982	UBB	Homo sapiens ubiquitin B (UBB), transcript variant 1, mRNA [NM_018955]
A_23_P75288	0.001843617	down	-1.623272	ATAD1	Homo sapiens ATPase family, AAA domain containing 1 (ATAD1), mRNA [NM_032810]
A_24_P19752	6.23E-05	down	-1.9540654	PEX19	Homo sapiens peroxisomal biogenesis factor 19 (PEX19), transcript variant 1, mRNA [NM_002857]
A_24_P354615	0.001539858	down	-1.9640551	MTMR12	Homo sapiens myotubularin related protein 12 (MTMR12), transcript variant 1, mRNA [NM_001040446]
A_33_P3313889	9.04E-04	down	-1.6528639	TOR1A	Homo sapiens torsin family 1, member A (torsin A) (TOR1A), mRNA [NM_000113]
A_23_P203030	9.93E-04	down	-1.7368865	DLAT	Homo sapiens dihydrolipoamide S-acetyltransferase (DLAT), mRNA [NM_001931]
A_23_P4041	4.47E-04	down	-1.8257358	PCTP	Homo sapiens phosphatidylcholine transfer protein (PCTP), transcript variant 1, mRNA [NM_021213]
A_33_P3419314	0.013898772	down	-1.7970936	CHD5	Homo sapiens chromodomain helicase DNA binding protein 5 (CHD5), mRNA [NM_015557]
A_23_P404575	0.037693318	down	-1.6386843	RBM46	Homo sapiens RNA binding motif protein 46 (RBM46), transcript variant 1, mRNA [NM_144979]
A_23_P146728	6.27E-04	down	-1.8393307	ALG2	Homo sapiens ALG2, alpha-1,3/1,6-mannosyltransferase (ALG2), transcript variant 1, mRNA [NM_033087]
A_23_P341532	0.023625761	down	-1.5753903	SETDB2	Homo sapiens SET domain, bifurcated 2 (SETDB2), transcript variant 1, mRNA [NM_031915]
A_23_P218988	2.81E-04	down	-2.1116786	SLC30A5	Homo sapiens solute carrier family 30 (zinc transporter), member 5 (SLC30A5), transcript variant 1, mRNA [NM_022902]
A_22_P00015117	0.009797321	down	-1.6402906	SNX2	Homo sapiens sorting nexin 2 (SNX2), transcript variant 2, mRNA [NM_001278199]
A_32_P123143	0.021329094	down	-1.6936475	HCN1	Homo sapiens hyperpolarization activated cyclic nucleotide gated potassium channel 1 (HCN1), mRNA [NM_021072]
A_23_P325887	0.002568692	down	-2.7301822	TBC1D8B	Homo sapiens TBC1 domain family, member 8B (with GRAM domain) (TBC1D8B), transcript variant 1, mRNA [NM_017752]
A_33_P3227676	0.012886327	down	-1.8169806	C2orf72	Homo sapiens chromosome 2 open reading frame 72 (C2orf72), mRNA [NM_001144994]
A_23_P112260	3.83E-04	down	-2.2602448	GNG10	Homo sapiens guanine nucleotide binding protein (G protein), gamma 10 (GNG10), transcript variant 1, mRNA [NM_001017998]
A_24_P71153	0.004335847	down	-1.5862592	PAFAH2	Homo sapiens platelet-activating factor acetylhydrolase 2, 40kDa (PAFAH2), mRNA [NM_000437]
A_23_P2922	5.64E-04	down	-1.8719208	MBIP	Homo sapiens MAP3K12 binding inhibitory protein 1 (MBIP), transcript variant 1, mRNA [NM_016586]
A_24_P376441	0.031534735	down	-1.6953912	TAF5L	Homo sapiens TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kDa (TAF5L), transcript variant 2, mRNA [NM_001025247]
A_23_P6624	5.18E-04	down	-1.6149796	UMPS	Homo sapiens uridine monophosphate synthetase (UMPS), transcript variant 1, mRNA [NM_000373]
A_33_P3384000	0.028006922	down	-1.6478578	ATP10A	ATPase, class V, type 10A [Source:HGNC Symbol;Acc:HGNC:13542] [ENST00000389967]
A_33_P3247599	0.009844285	down	-1.7682364	ZNF805	Homo sapiens zinc finger protein 805 (ZNF805), transcript variant 1, mRNA [NM_001023563]
A_23_P134755	0.012853526	down	-1.6430881	TRPS1	Homo sapiens trichorhinophalangeal syndrome I (TRPS1), transcript variant 1, mRNA [NM_014112]
A_33_P3281940	0.0012401	down	-1.6943107	RPE	Homo sapiens ribulose-5-phosphate-3-epimerase (RPE), transcript variant 4, mRNA [NM_001278283]
A_23_P76690	3.60E-04	down	-1.7161754	UCHL3	Homo sapiens ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase) (UCHL3), transcript variant 2, mRNA [NM_006002]
A_33_P3360718	0.011068639	down	-1.6390096	CDC27	Homo sapiens cell division cycle 27 (CDC27), transcript variant 1, mRNA [NM_001114091]
A_24_P132787	3.43E-05	down	-1.9789312	RAB18	Homo sapiens RAB18, member RAS oncogene family (RAB18), transcript variant 1, mRNA [NM_021252]
A_24_P400324	0.004882784	down	-3.5131633	THSD7A	Homo sapiens thrombospondin, type I, domain containing 7A (THSD7A), mRNA [NM_015204]
A_23_P151093	0.001644768	down	-1.7057801	YARS2	Homo sapiens tyrosyl-tRNA synthetase 2, mitochondrial (YARS2), mRNA [NM_001040436]
A_23_P153360	0.002045388	down	-1.6474606	SMIM7	Homo sapiens small integral membrane protein 7 (SMIM7), transcript variant 2, mRNA [NM_024104]
A_33_P3409477	6.53E-04	down	-1.9231339	UBASH3B	Homo sapiens ubiquitin associated and SH3 domain containing B (UBASH3B), mRNA [NM_032873]
A_23_P109055	0.010232039	down	-1.6310219	TP53RK	Homo sapiens TP53 regulating kinase (TP53RK), mRNA [NM_033550]

A_23_P123732	0.009339749	down	-1.5015417	IDNK	Homo sapiens idnK, gluconokinase homolog (E. coli) (IDNK), transcript variant 1, mRNA [NM_001001551]
A_33_P3213707	0.008615709	down	-1.9191324	PDCD1LG2	Homo sapiens programmed cell death 1 ligand 2 (PDCD1LG2), mRNA [NM_025239]
A_33_P3286254	4.10E-04	down	-1.8317021	AP3S1	Homo sapiens adaptor-related protein complex 3, sigma 1 subunit (AP3S1), mRNA [NM_001284]
A_23_P358995	0.001029549	down	-1.7087749	IBTK	Homo sapiens inhibitor of Bruton agammaglobulinemia tyrosine kinase (IBTK), transcript variant 1, mRNA [NM_015525]
A_23_P88710	2.28E-04	down	-1.7620025	TMEM87A	Homo sapiens transmembrane protein 87A (TMEM87A), transcript variant 1, mRNA [NM_015497]
A_23_P101671	0.015361276	down	-1.9885187	ATCAY	Homo sapiens ataxia, cerebellar, Cayman type (ATCAY), mRNA [NM_033064]
A_23_P214411	4.13E-04	down	-1.8438095	GLO1	Homo sapiens glyoxalase I (GLO1), mRNA [NM_006708]
A_23_P167201	0.003940022	down	-1.5578225	SEPSECS	Homo sapiens Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase (SEPSECS), mRNA [NM_016955]
A_24_P126484	0.012467855	down	-1.7831964	PBLD	phenazine biosynthesis-like protein domain containing [Source:HGNC Symbol;Acc:HGNC:23301][ENST00000277795]
A_23_P136196	0.00301833	down	-1.7248367	TBC1D19	Homo sapiens TBC1 domain family, member 19 (TBC1D19), transcript variant 1, mRNA [NM_018317]
A_23_P412392	0.00217997	down	-1.7091069	SEC22B	Homo sapiens SEC22 vesicle trafficking protein homolog B (S. cerevisiae) (gene/pseudogene) (SEC22B), mRNA [NM_004892]
A_23_P13797	6.87E-04	down	-1.6871815	C12orf49	Homo sapiens chromosome 12 open reading frame 49 (C12orf49), mRNA [NM_024738]

**Table S8. Gene expression changes for secreted genes from left part of Venn diagram defined in Fig. 3C of AR-AIT versus HC**

ProbeName	p ([AR-] Vs [HC])	Regulation ([AR-] Vs [HC])	FC ([AR-] Vs [HC])	GeneSymbol	Description
A_33_P3392092	0.012686643	down	-2.0563319	ADCYAP1	Homo sapiens adenylate cyclase activating polypeptide 1 (pituitary) (ADCYAP1), transcript variant 2, mRNA [NM_001117]
A_23_P76684	0.006725486	down	-1.8802391	RTN3	Homo sapiens reticulon 3 (RTN3), transcript variant 1, mRNA [NM_006054]
A_33_P3363168	0.0123177	down	-1.5771087	SSH2	Homo sapiens slingshot protein phosphatase 2 (SSH2), transcript variant 1, mRNA [NM_001282129]
A_33_P3369178	0.032703828	down	-1.9631351	PRG4	Homo sapiens proteoglycan 4 (PRG4), transcript variant A, mRNA [NM_005807]
A_33_P6462199	0.014197014	down	-1.7189957	APELA	Homo sapiens apelin receptor early endogenous ligand (APELA), mRNA [NM_001297550]
A_24_P97526	4.79E-04	down	-2.2261345	CMTM6	Homo sapiens CKLF-like MARVEL transmembrane domain containing 6 (CMTM6), mRNA [NM_017801]
A_23_P430930	0.031185925	down	-1.5733657	RSPO2	Homo sapiens R-spondin 2 (RSPO2), transcript variant 1, mRNA [NM_178565]
A_33_P3337540	8.48E-04	down	-1.5883385	IFNAR2	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2), transcript variant 2, mRNA [NM_000874]
A_24_P72064	0.02742474	down	-1.5869081	GHR	Homo sapiens growth hormone receptor (GHR), transcript variant 1, mRNA [NM_000163]
A_23_P212800	0.027482733	down	-1.5524665	FGF5	Homo sapiens fibroblast growth factor 5 (FGF5), transcript variant 1, mRNA [NM_004464]
A_23_P146233	0.003082181	down	-1.6973628	LPL	Homo sapiens lipoprotein lipase (LPL), mRNA [NM_000237]
A_23_P208389	0.014407859	down	-1.553694	AXL	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA [NM_021913]
A_24_P253003	0.043552887	down	-1.9722588	WNT11	Homo sapiens wingless-type MMTV integration site family, member 11 (WNT11), mRNA [NM_004626]
A_33_P3375466	0.020607384	down	-2.1449232	GPLD1	glycosylphosphatidylinositol specific phospholipase D1 [Source:HGNC Symbol;Acc:HGNC:4459] [ENST00000486892]
A_24_P753161	0.011240054	down	-1.5735651	BMPR2	Homo sapiens bone morphogenetic protein receptor, type II (serine/threonine kinase) (BMPR2), mRNA [NM_001204]
A_23_P44274	0.010869389	down	-1.7501987	FGA	Homo sapiens fibrinogen alpha chain (FGA), transcript variant alpha-E, mRNA [NM_000508]
A_24_P108451	0.002756563	down	-2.0076385	GPI	Homo sapiens glucose-6-phosphate isomerase (GPI), transcript variant 2, mRNA [NM_000175]
A_23_P203023	0.012255432	down	-1.8357457	RDX	Homo sapiens radixin (RDX), transcript variant 3, mRNA [NM_002906]
A_24_P49199	0.003900376	down	-1.6773826	GLDN	Homo sapiens gliomedin (GLDN), mRNA [NM_181789]
A_23_P43164	0.019171719	down	-1.6263068	SULF1	Homo sapiens sulfatase 1 (SULF1), transcript variant 3, mRNA [NM_015170]
A_23_P29953	0.003140834	down	-1.6071799	IL15	Homo sapiens interleukin 15 (IL15), transcript variant 2, mRNA [NM_172175]
A_33_P3268472	0.01600956	down	-1.7444068	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 3, mRNA [NM_001114173]
A_33_P3385101	0.001118422	down	-1.5662017	TOLLIP	Homo sapiens toll interacting protein (TOLLIP), mRNA [NM_019009]
A_24_P391368	0.005531607	down	-1.6232893	ATXN10	Homo sapiens ataxin 10 (ATXN10), transcript variant 1, mRNA [NM_013236]
A_23_P216622	0.004275787	down	-2.2140512	FKTN	Homo sapiens fukutin (FKTN), transcript variant 1, mRNA [NM_001079802]
A_23_P146539	0.014222398	down	-1.6848571	IFNA8	Homo sapiens interferon, alpha 8 (IFNA8), mRNA [NM_002170]
A_24_P928052	0.003868062	down	-1.8389908	NRP1	Homo sapiens neuropilin 1 (NRP1), transcript variant 1, mRNA [NM_003873]
A_23_P503064	0.02607585	down	-1.979409	KL	Homo sapiens klotho (KL), mRNA [NM_004795]
A_24_P45476	0.017555706	down	-2.1706524	XCL1	Homo sapiens chemokine (C motif) ligand 1 (XCL1), mRNA [NM_002995]
A_23_P330070	0.03301843	down	-1.5883182	TFPI	Homo sapiens tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor) (TFPI), transcript variant 2, mRNA [NM_001032281]
A_24_P174793	0.026247958	down	-2.2022734	PCSK1	Homo sapiens proprotein convertase subtilisin/kexin type 1 (PCSK1), transcript variant 1, mRNA [NM_000439]
A_33_P3283480	0.014486304	down	-1.73419	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 2, mRNA [NM_148170]
A_23_P81825	0.008004707	down	-1.9619334	GUCA1B	Homo sapiens guanylate cyclase activator 1B (retina) (GUCA1B), mRNA [NM_002098]
A_23_P116765	0.002504161	down	-1.9237759	LALBA	Homo sapiens lactalbumin, alpha- (LALBA), mRNA [NM_002289]
A_23_P166929	0.02550035	down	-1.5232803	SERPINI1	Homo sapiens serpin peptidase inhibitor, clade I (neuroserpin), member 1 (SERPINI1), transcript variant 1, mRNA [NM_005025]
A_33_P3349536	0.002772796	down	-1.7533749	CHEK1	Homo sapiens checkpoint kinase 1 (CHEK1), transcript variant 2, mRNA [NM_001114121]
A_32_P80850	0.009458897	down	-1.762047	COL14A1	Homo sapiens collagen, type XIV, alpha 1 (COL14A1), mRNA [NM_021110]
A_23_P133474	0.0187113	down	-1.7960585	GPX3	Homo sapiens glutathione peroxidase 3 (plasma) (GPX3), mRNA [NM_002084]
A_23_P334021	0.024451608	down	-1.6513429	IGF2R	Homo sapiens insulin-like growth factor 2 receptor (IGF2R), mRNA [NM_000876]
A_23_P134601	0.020336712	down	-1.6759638	WNT16	Homo sapiens wingless-type MMTV integration site family, member 16 (WNT16), transcript variant 1, mRNA [NM_057168]
A_24_P63347	0.01465968	down	-1.795154	PF4V1	Homo sapiens platelet factor 4 variant 1 (PF4V1), mRNA [NM_002620]
A_32_P45168	6.81E-04	down	-1.6653615	IL6ST	Homo sapiens interleukin 6 signal transducer (IL6ST), transcript variant 1, mRNA [NM_002184]
A_23_P146512	0.015922887	down	-1.7237895	GOLM1	Homo sapiens golgi membrane protein 1 (GOLM1), transcript variant 1, mRNA [NM_016548]
A_33_P3271156	0.033147708	down	-1.6615561	SPOCK3	Homo sapiens sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3 (SPOCK3), transcript variant 3, mRNA [NM_001204352]
A_32_P101689	0.002681966	down	-1.9126269	FAM3C	Homo sapiens family with sequence similarity 3, member C (FAM3C), transcript variant 1, mRNA [NM_014888]
A_33_P3212615	0.001861883	down	-2.727879	TFPI	Homo sapiens tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor) (TFPI), transcript variant 1, mRNA [NM_006287]
A_33_P3243857	0.020603279	down	-1.5195504	ADAM10	Homo sapiens ADAM metallopeptidase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P14174	5.77E-05	down	-2.0222223	TNFSF13B	Homo sapiens tumor necrosis factor (ligand) superfamily, member 13b (TNFSF13B), transcript variant 1, mRNA [NM_006573]

**Table S9. Gene expression changes for secreted genes from cut set defined in Fig. 3C of AA-AIT versus HC**

ProbeName	p ([AA-] Vs [HC])	Regulation ([AA-] Vs [HC])	FC ([AA-] Vs [HC])	GeneSymbol	Description
A_32_P190769	0.034484852	down	-1.769333	C1QTNF7	Homo sapiens C1q and tumor necrosis factor related protein 7 (C1QTNF7), transcript variant 3, mRNA [NM_031911]
A_33_P3221783	0.0438532	down	-1.6394169	TSLP	Homo sapiens thymic stromal lymphopoietin (TSLP), transcript variant 1, mRNA [NM_033035]
A_23_P165608	0.001799016	down	-2.183463	SEMA4F	Homo sapiens sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F (SEMA4F), transcript variant 1, mRNA [NM_004263]
A_24_P30557	0.04201902	down	-1.7825613	TBX5	Homo sapiens T-box 5 (TBX5), transcript variant 1, mRNA [NM_000192]
A_33_P3231367	0.026665315	down	-1.55324	ATXN10	Homo sapiens ataxin 10 (ATXN10), transcript variant 1, mRNA [NM_013236]
A_33_P3379886	0.031061854	down	-1.6620039	FGF2	Homo sapiens fibroblast growth factor 2 (basic) (FGF2), mRNA [NM_002006]
A_23_P212617	0.035766084	down	-3.1347427	TFRC	Homo sapiens transferrin receptor (TFRC), transcript variant 1, mRNA [NM_003234]
A_23_P1552	0.03114783	down	-1.9359329	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_23_P165727	0.021435175	down	-1.7803415	MSTN	Homo sapiens myostatin (MSTN), mRNA [NM_005259]
A_33_P3215277	0.016580919	down	-1.5131134	TTBK2	Homo sapiens tau tubulin kinase 2 (TTBK2), mRNA [NM_173500]
A_23_P105833	0.019694157	down	-1.8237839	BIVM	Homo sapiens basic, immunoglobulin-like variable motif containing (BIVM), transcript variant 1, mRNA [NM_017693]
A_33_P3269203	0.009001244	down	-2.067726	SERPINH1	Homo sapiens serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) (SERPINH1), transcript variant 1, mRNA [NM_001207014]
A_24_P202497	0.001532514	down	-2.4436843	TWSG1	Homo sapiens twisted gastrulation BMP signaling modulator 1 (TWSG1), mRNA [NM_020648]
A_23_P18123	0.001012369	down	-3.4714062	NLGN1	Homo sapiens neuroligin 1 (NLGN1), mRNA [NM_014932]
A_23_P55544	0.005791944	down	-2.518787	CCBE1	Homo sapiens collagen and calcium binding EGF domains 1 (CCBE1), mRNA [NM_133459]
A_24_P140405	0.01727693	down	-1.6926756	ADAMTS3	Homo sapiens ADAM metallopeptidase with thrombospondin type 1 motif, 3 (ADAMTS3), mRNA [NM_014243]
A_23_P79968	0.013670841	down	-1.8257375	PCSK2	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2), transcript variant 1, mRNA [NM_002594]
A_24_P277367	0.012249339	down	-3.093352	CXCL5	Homo sapiens chemokine (C-X-C motif) ligand 5 (CXCL5), mRNA [NM_002994]
A_33_P3219651	0.024468817	down	-1.6940436	BMPER	Homo sapiens BMP binding endothelial regulator (BMPER), mRNA [NM_133468]
A_24_P784765	0.004449119	down	-2.5754733	CD59	Homo sapiens CD59 molecule, complement regulatory protein (CD59), transcript variant 1, mRNA [NM_203330]
A_33_P3302255	0.00584417	down	-1.5812622	ITM2B	Homo sapiens integral membrane protein 2B (ITM2B), mRNA [NM_021999]
A_33_P3340769	0.008241517	down	-2.3538065	ADAM9	Homo sapiens ADAM metallopeptidase domain 9 (ADAM9), transcript variant 1, mRNA [NM_003816]
A_32_P97169	0.021822024	down	-1.6407976	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]
A_24_P412156	0.042167045	down	-1.6281822	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 2, mRNA [NM_000609]
A_23_P48886	0.006874017	down	-1.6188662	ADAM10	Homo sapiens ADAM metallopeptidase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P157580	0.004990098	down	-1.8704803	SDCBP	Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant 1, mRNA [NM_005625]
A_33_P3369371	0.042074185	down	-3.077123	GPX3	Homo sapiens glutathione peroxidase 3 (plasma) (GPX3), mRNA [NM_002084]
A_23_P139648	0.03437484	down	-1.710147	IAPP	Homo sapiens islet amyloid polypeptide (IAPP), mRNA [NM_000415]

A_23_P160262	0.029616244	down	-1.6896813	ANGPTL3	Homo sapiens angiopoietin-like 3 (ANGPTL3), mRNA [NM_014495]
A_23_P101950	0.002596028	down	-1.9116484	MDH1	Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1), transcript variant 2, mRNA [NM_005917]
A_24_P381604	0.004748902	down	-1.8375516	ITM2B	Homo sapiens integral membrane protein 2B (ITM2B), mRNA [NM_021999]
A_23_P144348	0.025006708	down	-1.6788411	SLIT2	Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant 1, mRNA [NM_004787]
A_24_P334300	6.87E-04	down	-3.615217	FGF12	Homo sapiens fibroblast growth factor 12 (FGF12), transcript variant 2, mRNA [NM_004113]
A_33_P6517036	0.04687285	down	-1.6152365	CDH13	cadherin 13 [Source:HGNC Symbol;Acc:HGNC:1753] [ENST00000567109]
A_23_P256473	0.02794775	down	-2.2519164	SEMA3C	Homo sapiens sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C (SEMA3C), mRNA [NM_006379]
A_23_P206396	0.029042121	down	-1.5468429	CKLF	Homo sapiens chemokine-like factor (CKLF), transcript variant 5, mRNA [NM_001040138]
A_32_P15320	0.03380439	down	-1.5039843	EEF1A1	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA [NM_001402]
A_32_P515088	0.017605368	down	-1.5223204	KDSR	Homo sapiens 3-ketodihydrosphingosine reductase (KDSR), mRNA [NM_002035]
A_23_P47292	0.023319086	down	-1.7285758	MMP20	Homo sapiens matrix metalloproteinase 20 (MMP20), mRNA [NM_004771]
A_23_P62659	0.002188017	down	-1.7937051	PPT1	Homo sapiens palmitoyl-protein thioesterase 1 (PPT1), transcript variant 1, mRNA [NM_000310]
A_24_P337239	0.046585385	down	-1.6413264	FGF5	Homo sapiens fibroblast growth factor 5 (FGF5), transcript variant 1, mRNA [NM_004464]
A_24_P763243	0.007927178	down	-1.5471231	EEF1A1	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA [NM_001402]
A_23_P111583	0.005921412	down	-1.7987943	CD36	Homo sapiens CD36 molecule (thrombospondin receptor) (CD36), transcript variant 2, mRNA [NM_001001547]
A_23_P208208	0.013507194	down	-1.689133	ZNF649	Homo sapiens zinc finger protein 649 (ZNF649), mRNA [NM_023074]
A_33_P3368855	0.029727371	down	-1.5539179	GPC5	Homo sapiens glypican 5 (GPC5), mRNA [NM_004466]

**Table S10. Gene expression changes for secreted genes from cut set defined in Fig. 3C tested for AR-AIT versus HC**

ProbeName	p ([AR-] Vs [HC])	Regulation ([AR-] Vs [HC])	FC ([AR-] Vs [HC])	GeneSymbol	Description
A_32_P190769	0.041876774	down	-1.5272696	C1QTNF7	Homo sapiens C1q and tumor necrosis factor related protein 7 (C1QTNF7), transcript variant 3, mRNA [NM_031911]
A_33_P3221783	0.030681355	down	-1.5748432	TSLP	Homo sapiens thymic stromal lymphopoietin (TSLP), transcript variant 1, mRNA [NM_033035]
A_23_P165608	0.001691285	down	-1.6841604	SEMA4F	Homo sapiens sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F (SEMA4F), transcript variant 1, mRNA [NM_004263]
A_24_P30557	0.0393597	down	-1.7064204	TBX5	Homo sapiens T-box 5 (TBX5), transcript variant 1, mRNA [NM_000192]
A_33_P3231367	0.001264689	down	-1.6531974	ATXN10	Homo sapiens ataxin 10 (ATXN10), transcript variant 1, mRNA [NM_013236]
A_33_P3379886	0.041974314	down	-1.5823529	FGF2	Homo sapiens fibroblast growth factor 2 (basic) (FGF2), mRNA [NM_002006]
A_23_P212617	0.003512143	down	-1.6906257	TFRC	Homo sapiens transferrin receptor (TFRC), transcript variant 1, mRNA [NM_003234]
A_23_P1552	0.001068989	down	-1.8945161	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_23_P165727	0.01226835	down	-1.7561021	MSTN	Homo sapiens myostatin (MSTN), mRNA [NM_005259]
A_33_P3215277	0.001816848	down	-1.6916137	TTBK2	Homo sapiens tau tubulin kinase 2 (TTBK2), mRNA [NM_173500]
A_23_P105833	0.010230918	down	-1.6024265	BIVM	Homo sapiens basic, immunoglobulin-like variable motif containing (BIVM), transcript variant 1, mRNA [NM_017693]
A_33_P3269203	0.023176149	down	-1.5423712	SERPINH1	Homo sapiens serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) (SERPINH1), transcript variant 1, mRNA [NM_001207014]
A_24_P202497	2.46E-04	down	-2.0646293	TWSG1	Homo sapiens twisted gastrulation BMP signaling modulator 1 (TWSG1), mRNA [NM_020648]
A_23_P18123	0.014388791	down	-2.4247594	NLGN1	Homo sapiens neuroligin 1 (NLGN1), mRNA [NM_014932]
A_23_P55544	0.028548118	down	-1.9647281	CCBE1	Homo sapiens collagen and calcium binding EGF domains 1 (CCBE1), mRNA [NM_133459]
A_24_P140405	0.004954484	down	-1.7538774	ADAMTS3	Homo sapiens ADAM metalloproteinase with thrombospondin type 1 motif, 3 (ADAMTS3), mRNA [NM_014243]
A_23_P79968	0.007016157	down	-1.7859999	PCSK2	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2), transcript variant 1, mRNA [NM_002594]
A_24_P277367	0.028859055	down	-2.02177	CXCL5	Homo sapiens chemokine (C-X-C motif) ligand 5 (CXCL5), mRNA [NM_002994]
A_33_P3219651	0.031323534	down	-1.5641878	BMPER	Homo sapiens BMP binding endothelial regulator (BMPER), mRNA [NM_133468]
A_24_P784765	0.002954988	down	-1.9054285	CD59	Homo sapiens CD59 molecule, complement regulatory protein (CD59), transcript variant 1, mRNA [NM_203330]
A_33_P3302255	1.58E-04	down	-1.7330031	ITM2B	Homo sapiens integral membrane protein 2B (ITM2B), mRNA [NM_021999]
A_33_P3340769	0.004635955	down	-1.8181514	ADAM9	Homo sapiens ADAM metalloproteinase domain 9 (ADAM9), transcript variant 1, mRNA [NM_003816]
A_32_P97169	0.00874777	down	-1.6421111	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]

A_24_P412156	0.04541582	down	-1.5474916	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 2, mRNA [NM_000609]
A_23_P48886	0.001128659	down	-1.7597382	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P157580	6.93E-05	down	-2.0741844	SDCBP	Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant 1, mRNA [NM_005625]
A_33_P3369371	0.007360374	down	-1.7866849	GPX3	Homo sapiens glutathione peroxidase 3 (plasma) (GPX3), mRNA [NM_002084]
A_23_P139648	0.026705492	down	-1.6802089	IAPP	Homo sapiens islet amyloid polypeptide (IAPP), mRNA [NM_000415]
A_23_P160262	0.016507816	down	-1.6910084	ANGPTL3	Homo sapiens angiopoietin-like 3 (ANGPTL3), mRNA [NM_014495]
A_23_P101950	0.002832646	down	-1.6152493	MDH1	Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1), transcript variant 2, mRNA [NM_005917]
A_24_P381604	1.32E-04	down	-1.7130008	ITM2B	Homo sapiens integral membrane protein 2B (ITM2B), mRNA [NM_021999]
A_23_P144348	0.001284207	down	-2.1043441	SLIT2	Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant 1, mRNA [NM_004787]
A_24_P334300	0.005455842	down	-2.7330756	FGF12	Homo sapiens fibroblast growth factor 12 (FGF12), transcript variant 2, mRNA [NM_004113]
A_33_P6517036	0.022413978	down	-1.6745641	CDH13	cadherin 13 [Source:HGNC Symbol;Acc:HGNC:1753] [ENST00000567109]
A_23_P256473	8.99E-04	down	-2.4724948	SEMA3C	Homo sapiens sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C (SEMA3C), mRNA [NM_006379]
A_23_P206396	9.23E-04	down	-1.6616987	CKLF	Homo sapiens chemokine-like factor (CKLF), transcript variant 5, mRNA [NM_001040138]
A_32_P15320	0.00148334	down	-1.5792764	EEF1A1	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA [NM_001402]
A_32_P515088	0.010752392	down	-1.5047975	KDSR	Homo sapiens 3-ketodihydrosphingosine reductase (KDSR), mRNA [NM_002035]
A_23_P47292	0.007111504	down	-1.9550035	MMP20	Homo sapiens matrix metalloproteinase 20 (MMP20), mRNA [NM_004771]
A_23_P62659	0.002460965	down	-1.6891221	PPT1	Homo sapiens palmitoyl-protein thioesterase 1 (PPT1), transcript variant 1, mRNA [NM_000310]
A_24_P337239	0.017941633	down	-1.7544032	FGF5	Homo sapiens fibroblast growth factor 5 (FGF5), transcript variant 1, mRNA [NM_004464]
A_24_P763243	0.003453483	down	-1.5111316	EEF1A1	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA [NM_001402]
A_23_P111583	0.008640613	down	-1.7669811	CD36	Homo sapiens CD36 molecule (thrombospondin receptor) (CD36), transcript variant 2, mRNA [NM_001001547]
A_23_P208208	0.008424628	down	-1.543603	ZNF649	Homo sapiens zinc finger protein 649 (ZNF649), mRNA [NM_023074]
A_33_P3368855	0.009464365	down	-1.7247219	GPC5	Homo sapiens glypican 5 (GPC5), mRNA [NM_004466]

**Table S11. Gene expression changes for secreted genes from right part of Venn diagram defined in Fig. 3C of AA-AIT versus HC**

ProbeName	P (AA-) Vs (HC)	Regulation (AA-) Vs (HC)	FC (AA-) Vs (HC)	GeneSymbol	Description
A_33_P3254136	0.04589422	down	-1.6951239	PKHD1L1	Homo sapiens polycystic kidney and hepatic disease 1 (autosomal recessive)-like 1 (PKHD1L1), mRNA [NM_177531]
A_23_P377299	0.010985544	down	-2.232017	ECE2	Homo sapiens endothelin converting enzyme 2 (ECE2), transcript variant 1, mRNA [NM_014693]
A_23_P120883	0.003061266	down	-2.663732	HMOX1	Homo sapiens heme oxygenase (decycling) 1 (HMOX1), mRNA [NM_002133]
A_23_P34744	3.21E-04	down	-3.5662146	CTSK	Homo sapiens cathepsin K (CTSK), mRNA [NM_000396]
A_23_P167349	0.003025295	down	-2.3656504	GC	Homo sapiens group-specific component (vitamin D binding protein) (GC), transcript variant 1, mRNA [NM_000583]
A_24_P382119	0.01466924	down	-1.5465069	MTMR4	Homo sapiens myotubularin related protein 4 (MTMR4), mRNA [NM_004687]
A_23_P88522	0.035289925	down	-2.3655894	NMB	Homo sapiens neuromedin B (NMB), transcript variant 1, mRNA [NM_021077]
A_33_P3258091	0.008205638	down	-1.7170736	RNPEP	Homo sapiens arginyl aminopeptidase (aminopeptidase B) (RNPEP), mRNA [NM_020216]
A_23_P127891	0.01149975	down	-1.8091713	BDNF	Homo sapiens brain-derived neurotrophic factor (BDNF), transcript variant 1, mRNA [NM_170735]
A_23_P154894	0.04197503	down	-2.02658	CSTB	Homo sapiens cystatin B (stefin B) (CSTB), mRNA [NM_000100]
A_24_P48723	0.003000776	down	-2.6056206	PTGIS	Homo sapiens prostaglandin I2 (prostaglandin) synthase (PTGIS), mRNA [NM_000961]
A_21_P0014015	0.013375661	down	-1.9720199	CNP	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:HGNC Symbol;Acc:HGNC:2158] [ENST00000592861]
A_23_P156061	0.014953146	down	-1.7880483	LNPEP	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), transcript variant 1, mRNA [NM_005575]
A_23_P166269	0.040229946	down	-3.1794202	FAM3B	Homo sapiens family with sequence similarity 3, member B (FAM3B), transcript variant 1, mRNA [NM_058186]
A_24_P223874	0.03814447	down	-1.7687726	SFTPA1	Homo sapiens surfactant protein A1 (SFTPA1), transcript variant 1, mRNA [NM_005411]
A_33_P3319231	0.022389136	down	-1.7922528	AIFM2	apoptosis-inducing factor, mitochondrion-associated, 2 [Source:HGNC Symbol;Acc:HGNC:21411] [ENST00000373248]
A_24_P196528	0.006666233	down	-4.824404	CRB1	Homo sapiens crumbs family member 1, photoreceptor morphogenesis associated (CRB1), transcript variant 1, mRNA [NM_201253]
A_23_P256413	0.014506795	down	-1.546428	CMTM7	Homo sapiens CKLF-like MARVEL transmembrane domain containing 7 (CMTM7), transcript variant 1, mRNA [NM_138410]
A_23_P37441	0.006178621	down	-1.6903744	B2M	Homo sapiens beta-2-microglobulin (B2M), mRNA [NM_004048]
A_33_P3387272	0.016878404	down	-1.5859249	EEF1A1	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA [NM_001402]
A_33_P3351249	0.028651122	down	-2.8922467	CXCL16	Homo sapiens chemokine (C-X-C motif) ligand 16 (CXCL16), transcript variant 2, mRNA [NM_001100812]
A_33_P3405839	0.014896964	down	-2.2884395	TPO	Homo sapiens thyroid peroxidase (TPO), transcript variant 5, mRNA [NM_175722]
A_24_P179351	0.002013917	down	-1.75119	TPT1	Homo sapiens tumor protein, translationally-controlled 1 (TPT1), transcript variant 2, mRNA [NM_003295]
A_33_P3226377	0.02571644	down	-1.5894933	PRH2	Homo sapiens proline-rich protein HaeIII subfamily 2 (PRH2), transcript variant 1, mRNA [NM_005042]
A_24_P276628	0.018577266	down	-1.7116379	PPT1	Homo sapiens palmitoyl-protein thioesterase 1 (PPT1), transcript variant 1, mRNA [NM_000310]
A_24_P940135	0.003254435	down	-1.8294909	CTBS	Homo sapiens chitinase, di-N-acetyl- (CTBS), mRNA [NM_004388]
A_33_P3292854	0.04606215	down	-1.5553663	CALR	Homo sapiens calreticulin (CALR), mRNA [NM_004343]
A_23_P155351	0.029254718	down	-1.5775158	BTD	Homo sapiens biotinidase (BTD), transcript variant 3, mRNA [NM_000060]
A_33_P3280385	0.036897637	down	-1.6241232	COL6A3	Homo sapiens collagen, type VI, alpha 3 (COL6A3), transcript variant 3, mRNA [NM_057165]
A_23_P315364	0.048094835	down	-6.3066316	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_33_P3420900	0.0027628	down	-3.1708844	PATE2	Homo sapiens prostate and testis expressed 2 (PATE2), mRNA [NM_212555]
A_24_P306726	0.004378866	down	-1.7680008	TPT1	Homo sapiens tumor protein, translationally-controlled 1 (TPT1), transcript variant 2, mRNA [NM_003295]
A_23_P94533	0.04181123	down	-3.1553388	CTSL	Homo sapiens cathepsin L (CTSL), transcript variant 1, mRNA [NM_001912]
A_23_P322086	0.043955486	down	-2.1909728	SPX	Homo sapiens spexin hormone (SPX), mRNA [NM_030572]
A_23_P39799	0.047228064	down	-1.5178727	LOXL3	Homo sapiens lysyl oxidase-like 3 (LOXL3), transcript variant 1, mRNA [NM_032603]
A_33_P3791263	0.022454448	down	-1.7147325	OLFM3	Homo sapiens olfactomedin 3 (OLFM3), transcript variant 3, mRNA [NM_001288823]
A_23_P112554	0.012973307	down	-1.9025874	COL15A1	Homo sapiens collagen, type XV, alpha 1 (COL15A1), mRNA [NM_001855]
A_24_P365807	0.023668826	down	-1.8524894	EFNB1	Homo sapiens ephrin-B1 (EFNB1), mRNA [NM_004429]

A_23_P4161	0.021640265	down	-1.5776799	ARSG	arylsulfatase G [Source:HGNC Symbol;Acc:HGNC:24102] [ENST00000448504]
A_33_P3264269	0.045214143	down	-1.5820222	MOV10	Homo sapiens Mov10 RISC complex RNA helicase (MOV10), transcript variant 3, mRNA [NM_001286072]
A_23_P119936	0.042211678	down	-1.8051478	REG3A	Homo sapiens regenerating islet-derived 3 alpha (REG3A), transcript variant 2, mRNA [NM_138938]
A_23_P111402	0.039168965	down	-3.5393105	RSPO3	Homo sapiens R-spondin 3 (RSPO3), mRNA [NM_032784]
A_23_P128574	0.015405473	down	-2.8411486	ENOX1	Homo sapiens ecto-NOX disulfide-thiol exchanger 1 (ENOX1), transcript variant 1, mRNA [NM_017993]
A_33_P3423570	0.00183353	down	-1.9570544	METRN	Homo sapiens meteorin, glial cell differentiation regulator (METRN), mRNA [NM_024042]
A_23_P167493	0.026438981	down	-1.9005079	CARTPT	Homo sapiens CART prepropeptide (CARTPT), mRNA [NM_004291]
A_21_P0000176	0.030753985	down	-1.9211922	CDH13	Homo sapiens cadherin 13 (CDH13), transcript variant 5, mRNA [NM_001220491]
A_33_P3210965	0.023431147	down	-1.9040838	TCTN1	Homo sapiens tectonic family member 1 (TCTN1), transcript variant 1, mRNA [NM_001082538]
A_33_P3406623	0.010875562	down	-1.6663874	TNFSF12	Homo sapiens tumor necrosis factor (ligand) superfamily, member 12 (TNFSF12), transcript variant 1, mRNA [NM_003809]
A_23_P58396	0.008211567	down	-1.8691097	PDGFC	Homo sapiens platelet derived growth factor C (PDGFC), transcript variant 1, mRNA [NM_016205]
A_32_P142440	0.03160898	down	-4.4842424	PCSK9	Homo sapiens proprotein convertase subtilisin/kexin type 9 (PCSK9), transcript variant 1, mRNA [NM_174936]
A_33_P3261818	0.009510448	down	-1.6301882	MDH1	Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1), transcript variant 2, mRNA [NM_005917]
A_23_P201368	0.025726926	down	-1.5614562	CTBS	Homo sapiens chitobias, di-N-acetyl- (CTBS), mRNA [NM_004388]
A_23_P73114	0.03639642	down	-2.379509	PROS1	Homo sapiens protein S (alpha) (PROS1), mRNA [NM_000313]
A_33_P3282489	0.004181315	down	-2.1059306	GCNT1	Homo sapiens glucosaminyl (N-acetyl) transferase 1, core 2 (GCNT1), transcript variant 1, mRNA [NM_001097634]
A_23_P30122	0.014566761	down	-2.0826333	IL2	Homo sapiens interleukin 2 (IL2), mRNA [NM_000586]
A_33_P3263277	0.012571266	down	-1.6443335	EEF1A1	Human elongation factor 1-alpha (EF1A) mRNA, partial cds. [M29548]
A_32_P313405	0.04550742	down	-3.323531	LAMA1	Homo sapiens laminin, alpha 1 (LAMA1), mRNA [NM_005559]
A_24_P245298	0.00444458	down	-1.9409235	TNFSF12	Homo sapiens tumor necrosis factor (ligand) superfamily, member 12 (TNFSF12), transcript variant 1, mRNA [NM_003809]
A_23_P8961	5.10E-04	down	-2.4128914	IL7	Homo sapiens interleukin 7 (IL7), transcript variant 1, mRNA [NM_000880]
A_33_P3397525	0.030981716	down	-1.7912502	WNT4	Homo sapiens wingless-type MMTV integration site family, member 4 (WNT4), mRNA [NM_030761]
A_33_P3382177	0.017115137	down	-1.8615247	TIMP2	Homo sapiens TIMP metalloproteinase inhibitor 2 (TIMP2), mRNA [NM_003255]
A_23_P98382	0.01474834	down	-1.6084414	TIMM8B	Homo sapiens translocase of inner mitochondrial membrane 8 homolog B (yeast) (TIMM8B), transcript variant 1, mRNA [NM_012459]
A_24_P244706	0.02434364	down	-1.6297488	SSTR1	Homo sapiens somatostatin receptor 1 (SSTR1), mRNA [NM_001049]
A_23_P218858	0.002930635	down	-2.970404	ABI3BP	Homo sapiens ABI family, member 3 (NESH) binding protein (ABI3BP), mRNA [NM_015429]
A_33_P3212555	0.029141515	down	-1.623088	PROS1	Homo sapiens protein S (alpha) (PROS1), mRNA [NM_000313]
A_33_P3251552	0.04017219	down	-2.0559099	RSPO4	Homo sapiens R-spondin 4 (RSPO4), transcript variant 1, mRNA [NM_001029871]
A_33_P3256778	0.012414722	down	-2.3242157	CNTF	Homo sapiens ciliary neurotrophic factor (CNTF), mRNA [NM_000614]
A_24_P257416	0.03703572	down	-3.5145414	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_33_P3256347	0.027520727	down	-1.5385352	TIMM8B	Homo sapiens translocase of inner mitochondrial membrane 8 homolog B (yeast) (TIMM8B), transcript variant 1, mRNA [NM_012459]
A_24_P295806	0.016435107	down	-1.928913	CHID1	Homo sapiens chitinase domain containing 1 (CHID1), transcript variant 3, mRNA [NM_023947]
A_23_P148297	0.007080677	down	-1.665376	SH3BGRL	Homo sapiens SH3 domain binding glutamate-rich protein like (SH3BGRL), mRNA [NM_003022]
A_23_P36985	0.010447358	down	-2.5990827	PCDH8	Homo sapiens protocadherin 8 (PCDH8), transcript variant 1, mRNA [NM_002590]
A_23_P202501	0.00362879	down	-1.8388847	RNLS	Homo sapiens renalase, FAD-dependent amine oxidase (RNLS), transcript variant 1, mRNA [NM_001031709]
A_23_P135769	0.03930555	down	-1.8032029	ACTB	Homo sapiens actin, beta (ACTB), mRNA [NM_0011101]
A_23_P72117	7.42E-04	down	-2.9752638	SMPDL3A	Homo sapiens sphingomyelin phosphodiesterase, acid-like 3A (SMPDL3A), transcript variant 1, mRNA [NM_006714]
A_24_P55295	0.004043915	down	-2.1627452	GJA1	Homo sapiens gap junction protein, alpha 1, 43kDa (GJA1), mRNA [NM_000165]
A_33_P3272580	0.037699625	down	-1.5141863	FUCA2	Homo sapiens fucosidase, alpha-L- 2, plasma (FUCA2), mRNA [NM_032020]
A_33_P3382856	0.01448115	down	-1.6855268	DCN	Homo sapiens decorin (DCN), transcript variant E, mRNA [NM_133507]
A_24_P205994	0.04735557	down	-1.6505252	EPGN	Homo sapiens epithelial mitogen (EPGN), transcript variant 1, mRNA [NM_001270989]
A_33_P3422777	0.04453521	down	-1.6527406	PRH2	Homo sapiens proline-rich protein Haell subfamily 2 (PRH2), transcript variant 1, mRNA [NM_005042]
A_23_P12357	0.011540561	down	-2.285458	CRB1	Homo sapiens crumbs family member 1, photoreceptor morphogenesis associated (CRB1), transcript variant 1, mRNA [NM_201253]

**Table S12. Interactions output of String network analysis of secreted factors (Suppl.Table S8)**

#node1	node2	node1_string_id	node2_string_id	neighborhood_on_chromosome	gene_fusion	phylogenetic_cooccurrence	homology	coexpression	experimentally_determined_interaction	database_annotated	automated_textmining	combined_score
ADAM10	CMTM6	9606.ENSP00000260408	9606.ENSP00000205636	0	0	0	0	0.065	0	0.9	0	0.902
ADAM10	FGA	9606.ENSP00000260408	9606.ENSP00000306361	0	0	0	0	0	0	0.9	0	0.9
ADAM10	GOLM1	9606.ENSP00000260408	9606.ENSP00000373364	0	0	0	0	0	0	0.9	0.083	0.904
CTSC	TOLLIP	9606.ENSP00000227266	9606.ENSP00000314733	0	0	0	0	0	0	0.9	0.056	0.901
FGA	GOLM1	9606.ENSP00000306361	9606.ENSP00000373364	0	0	0	0	0	0	0.9	0	0.9
IFNA8	IFNAR2	9606.ENSP00000369553	9606.ENSP00000343957	0	0	0	0	0	0	0.9	0.111	0.907
WNT11	WNT16	9606.ENSP00000325526	9606.ENSP00000222462	0	0	0	0.883	0	0	0.9	0.674	0.907

**Table S13. Reactome pathway enrichment analysis output of String network analysis of secreted factors (Suppl.Table S8)**

#term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (IDs)	matching proteins in your network (labels)
HSA-140877	Formation of Fibrin Clot (Clotting Cascade)	3	39	1.51	0.0265	9606.ENSP00000226524,9606.ENSP0000233156,9606.ENSP00000306361	PF4V1,TFPI,FGA

**Table S14. Gene expression changes of string output genes from Fig. 3D in AR-AIT versus HC**

ProbeName	p ([AR-] Vs [HC])	Regulation ([AR-] Vs [HC])	FC ([AR-] Vs [HC])	GeneSymbol	Description
A_23_P146512	0.015922887	down	-1.7237895	GOLM1	Homo sapiens golgi membrane protein 1 (GOLM1), transcript variant 1, mRNA [NM_016548]
A_33_P3337540	8.48E-04	down	-1.5883385	IFNAR2	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2), transcript variant 2, mRNA [NM_000874]
A_23_P48886	0.001128659	down	-1.7597382	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_33_P3385101	0.001118422	down	-1.5662017	TOLLIP	Homo sapiens toll interacting protein (TOLLIP), mRNA [NM_019009]
A_33_P3243857	0.020603279	down	-1.5195504	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_33_P3283480	0.014486304	down	-1.73419	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 2, mRNA [NM_148170]
A_23_P1552	0.001068989	down	-1.8945161	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_33_P3268472	0.01600956	down	-1.7444068	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 3, mRNA [NM_001114173]
A_24_P97526	4.79E-04	down	-2.2261345	CMTM6	Homo sapiens CKLF-like MARVEL transmembrane domain containing 6 (CMTM6), mRNA [NM_017801]
A_24_P253003	0.043552887	down	-1.9722588	WNT11	Homo sapiens wingless-type MMTV integration site family, member 11 (WNT11), mRNA [NM_004626]
A_23_P134601	0.020336712	down	-1.6759638	WNT16	Homo sapiens wingless-type MMTV integration site family, member 16 (WNT16), transcript variant 1, mRNA [NM_057168]
A_23_P44274	0.010869389	down	-1.7501987	FGA	Homo sapiens fibrinogen alpha chain (FGA), transcript variant alpha-E, mRNA [NM_000508]
A_23_P146539	0.014222398	down	-1.6848571	IFNA8	Homo sapiens interferon, alpha 8 (IFNA8), mRNA [NM_002170]

**Table S15. Interactions output of String network analysis of secreted factors (Suppl.Table S9 & S10)**

#node1	node2	node1_string_id	node2_string_id	neighborhood_on_chromosome	gene_fusion	phylogenetic_cooccurrence	homology	coexpression	experimentally_determined_interaction	database_annotated	automated_textmining	combined_score
ADAM10	CD59	9606.ENSP00000260408	9606.ENSP00000379191	0	0	0	0	0	0	0.9	0.104	0.906
ADAM10	CD36	9606.ENSP00000260408	9606.ENSP00000399421	0	0	0	0	0	0	0.9	0.103	0.906
CD36	CD59	9606.ENSP00000399421	9606.ENSP00000379191	0	0	0	0	0	0	0.9	0.119	0.908
CD59	CTSC	9606.ENSP00000379191	9606.ENSP00000227266	0	0	0	0	0	0	0.9	0.079	0.903
CTSC	SDCBP	9606.ENSP00000227266	9606.ENSP00000260130	0	0	0	0	0.062	0	0.9	0.06	0.904
CXCL12	CXCL5	9606.ENSP00000379140	9606.ENSP00000296027	0	0	0	0	0	0	0.9	0.67	0.965
CXCL12	SLIT2	9606.ENSP00000379140	9606.ENSP00000422591	0	0	0	0	0.12	0	0.9	0.412	0.943
GPC5	GPC6	9606.ENSP00000366267	9606.ENSP00000366246	0	0	0	0.73	0.055	0	0.9	0.8	0.922

**Table S16. Reactome pathway enrichment analysis output of String network analysis of secreted factors (Suppl.Table S9 & S10)**

#term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (IDs)	matching proteins in your network (labels)
HSA-1474244	Extracellular matrix organization	6	298	0.96	0.0126	9606.ENSP00000260228,9606.ENSP0000260408,9606.ENSP00000264498,9606.ENSP00000286657,9606.ENSP0000419446,9606.ENSP00000434412	MMP20,ADAM10,FGF2,ADAMTS3,ADAM9,SERPINH1

**Table S17. Gene expression changes of string output genes from Fig. 3E in AA-AIT versus HC**

ProbeName	p ([AA-] Vs [HC])	Regulation ([AA-] Vs [HC])	FC ([AA-] Vs [HC])	GeneSymbol	Description
A_23_P1552	0.03114783	down	-1.9359329	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_24_P277367	0.012249339	down	-3.093352	CXCL5	Homo sapiens chemokine (C-X-C motif) ligand 5 (CXCL5), mRNA [NM_002994]
A_24_P784765	0.004449119	down	-2.5754733	CD59	Homo sapiens CD59 molecule, complement regulatory protein (CD59), transcript variant 1, mRNA [NM_203330]
A_32_P97169	0.021822024	down	-1.6407976	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]
A_24_P412156	0.042167045	down	-1.6281822	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 2, mRNA [NM_000609]
A_23_P48886	0.006874017	down	-1.6188662	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P157580	0.004990098	down	-1.8704803	SDCBP	Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant 1, mRNA [NM_005625]
A_23_P144348	0.025006708	down	-1.6788411	SLIT2	Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant 1, mRNA [NM_004787]
A_23_P111583	0.005921412	down	-1.7987943	CD36	Homo sapiens CD36 molecule (thrombospondin receptor) (CD36), transcript variant 2, mRNA [NM_001001547]
A_33_P3368855	0.029727371	down	-1.5539179	GPC5	Homo sapiens glypican 5 (GPC5), mRNA [NM_004466]

**Table S18. Gene expression changes of string output genes from Fig. 3E in AR-AIT versus HC**

ProbeName	p ([AR-] Vs [HC])	Regulation ([AR-] Vs [HC])	FC ([AR-] Vs [HC])	GeneSymbol	Description
A_23_P1552	0.001068989	down	-1.8945161	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_33_P3268472	0.01600956	down	-1.7444068	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 3, mRNA [NM_001114173]
A_24_P277367	0.028859055	down	-2.02177	CXCL5	Homo sapiens chemokine (C-X-C motif) ligand 5 (CXCL5), mRNA [NM_002994]
A_24_P784765	0.002954988	down	-1.9054285	CD59	Homo sapiens CD59 molecule, complement regulatory protein (CD59), transcript variant 1, mRNA [NM_203330]
A_32_P97169	0.00874777	down	-1.6421111	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]
A_33_P3283480	0.014486304	down	-1.73419	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 2, mRNA [NM_148170]
A_24_P412156	0.04541582	down	-1.5474916	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 2, mRNA [NM_000609]
A_23_P48886	0.001128659	down	-1.7597382	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P157580	6.93E-05	down	-2.0741844	SDCBP	Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant 1, mRNA [NM_005625]
A_23_P144348	0.001284207	down	-2.1043441	SLIT2	Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant 1, mRNA [NM_004787]
A_23_P111583	0.008640613	down	-1.7669811	CD36	Homo sapiens CD36 molecule (thrombospondin receptor) (CD36), transcript variant 2, mRNA [NM_001001547]
A_33_P3368855	0.009464365	down	-1.7247219	GPC5	Homo sapiens glypican 5 (GPC5), mRNA [NM_004466]
A_33_P3243857	0.020603279	down	-1.5195504	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]

**Table S19. Interactions output of String network analysis of secreted factors (Suppl.Table S11)**

#node1	node2	node1_string_id	node2_string_id	neighborhood_on_chromosome	gene_fusion	phylogenetic_cooccurrence	homology	coexpression	experimentally_determined_interaction	database_annotated	automated_textmining	combined_score
B2M	IL2	9606.ENSP00000452780	9606.ENSP00000226730	0	0	0	0	0	0	0.9	0.588	0.957
B2M	LNPEP	9606.ENSP00000452780	9606.ENSP00000231368	0	0	0	0	0.063	0	0.9	0.097	0.908
B2M	TIMP2	9606.ENSP00000452780	9606.ENSP00000262768	0	0	0	0	0.062	0	0.9	0.214	0.919
B2M	CSTB	9606.ENSP00000452780	9606.ENSP00000291568	0	0	0	0	0	0	0.9	0.438	0.941
B2M	CALR	9606.ENSP00000452780	9606.ENSP00000320866	0	0	0	0	0	0	0.9	0.441	0.941
COL15A1	COL6A3	9606.ENSP00000364140	9606.ENSP00000295550	0	0	0	0.558	0.293	0	0.9	0.549	0.943
COL15A1	CTSL	9606.ENSP00000364140	9606.ENSP00000345344	0	0	0	0	0.061	0	0.9	0	0.902
CSTB	TIMP2	9606.ENSP00000291568	9606.ENSP00000262768	0	0	0	0	0.061	0	0.9	0.138	0.912
CXCL16	SSTR1	9606.ENSP00000293778	9606.ENSP00000267377	0	0	0	0	0	0	0.9	0	0.9
CXCL16	CXCL2	9606.ENSP00000293778	9606.ENSP00000427279	0	0	0	0	0.086	0	0.9	0.543	0.954
CXCL2	SSTR1	9606.ENSP00000427279	9606.ENSP00000267377	0	0	0	0	0	0	0.9	0	0.9
FUCA2	PCSK9	9606.ENSP00000002165	9606.ENSP00000303208	0	0	0	0	0	0	0.9	0	0.9
IL2	IL7	9606.ENSP00000226730	9606.ENSP00000263851	0	0	0	0	0	0	0	0.92	0.92
RSPO3	RSPO4	9606.ENSP00000349131	9606.ENSP00000217260	0	0	0	0.877	0	0	0.9	0.778	0.909

Table S20. Reactome pathway enrichment analysis output of String network analysis of secreted factors (Suppl.Table S11)

#term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (IDs)	matching proteins in your network (labels)
HSA-1236977	Endosomal/Vacuolar pathway	3	11	1.87	0.005	9606.ENSPO0000231368,9606.ENSPO00000345344,9606.ENSPO00000452780	LNPEP,CTSL,B2M
HSA-1474228	Degradation of the extracellular matrix	6	139	1.07	0.005	9606.ENSPO0000052754,9606.ENSPO00000262768,9606.ENSPO00000271651,9606.ENSPO00000295550,9606.ENSPO00000345344,9606.ENSPO000364140	DCN,TIMP2,CTSK,COL6A3,CTSL,COL15A1
HSA-1474244	Extracellular matrix organization	8	298	0.86	0.005	9606.ENSPO0000052754,9606.ENSPO00000262768,9606.ENSPO00000264094,9606.ENSPO00000271651,9606.ENSPO00000295550,9606.ENSPO000345344,9606.ENSPO00000364140,9606.ENSPO00000374309	DCN,TIMP2,LOXL3,CTSK,COL6A3,CTSL,COL15A1,LAMA1
HSA-168256	Immune System	19	1925	0.43	0.005	9606.ENSPO0000002165,9606.ENSPO00000216117,9606.ENSPO00000226730,9606.ENSPO00000231368,9606.ENSPO00000262768,9606.ENSPO000263851,9606.ENSPO00000271651,9606.ENSPO00000291568,9606.ENSPO00000293825,9606.ENSPO00000320866,9606.ENSPO00000339063,9606.ENSPO00000345344,9606.ENSPO00000349960,9606.ENSPO00000355370,9606.ENSPO00000377456,9606.ENSPO00000377783,9606.ENSPO000397082,9606.ENSPO00000427279,9606.ENSPO00000452780	FUCA2,HMOX1,IL2,LNPEP,TIMP2,IL7,CTSK,CSTB,TNFSF12,CALR,EEF1A1,CTSL,ACTB,CNTF,REG3A,PROS1,SFTPA1,CXCL2,B2M
HSA-2022090	Assembly of collagen fibrils and other multimeric structures	4	60	1.26	0.006	9606.ENSPO00000264094,9606.ENSPO00000295550,9606.ENSPO00000345344,9606.ENSPO00000364140	LOXL3,COL6A3,CTSL,COL15A1
HSA-1442490	Collagen degradation	4	64	1.23	0.006	9606.ENSPO00000271651,9606.ENSPO00000295550,9606.ENSPO00000345344,9606.ENSPO00000364140	CTSK,COL6A3,CTSL,COL15A1
HSA-1236975	Antigen processing-Cross presentation	4	96	1.05	0.019	9606.ENSPO00000231368,9606.ENSPO00000320866,9606.ENSPO00000345344,9606.ENSPO00000452780	LNPEP,CALR,CTSL,B2M
HSA-8939242	RUNX1 regulates transcription of genes involved in differentiation of keratinocytes	2	8	1.83	0.02	9606.ENSPO00000271651,9606.ENSPO00000345344	CTSK,CTSL
HSA-196025	Formation of annular gap junctions	2	11	1.69	0.03	9606.ENSPO00000282561,9606.ENSPO00000349960	GJA1,ACTB
HSA-8878171	Transcriptional regulation by RUNX1	5	201	0.83	0.03	9606.ENSPO00000226730,9606.ENSPO00000271651,9606.ENSPO00000345344,9606.ENSPO00000349131,9606.ENSPO00000399797	IL2,CTSK,CTSL,RSP03,MOV10
HSA-1679131	Trafficking and processing of endosomal TLR	2	13	1.62	0.03	9606.ENSPO00000271651,9606.ENSPO00000345344	CTSK,CTSL
HSA-168249	Innate Immune System	11	1012	0.47	0.03	9606.ENSPO0000002165,9606.ENSPO00000262768,9606.ENSPO00000271651,9606.ENSPO00000291568,9606.ENSPO00000339063,9606.ENSPO000345344,9606.ENSPO00000349960,9606.ENSPO00000377456,9606.ENSPO00000377783,9606.ENSPO00000397082,9606.ENSPO00000452780	FUCA2,TIMP2,CTSK,CSTB,EEF1A1,CTSL,ACTB,REG3A,PROS1,SFTPA1,B2M

**Table S21. Gene expression changes of string output genes from Fig. 3F in AA-AIT versus HC**

ProbeName	p ([AA-] Vs [HC])	Regulation ([AA-] Vs [HC])	FC ([AA-] Vs [HC])	GeneSymbol	Description
A_23_P154894	0.04197503	down	-2.02658	CSTB	Homo sapiens cystatin B (stefin B) (CSTB), mRNA [NM_000100]
A_23_P156061	0.014953146	down	-1.7880483	LNPEP	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), transcript variant 1, mRNA [NM_005575]
A_23_P37441	0.006178621	down	-1.6903744	B2M	Homo sapiens beta-2-microglobulin (B2M), mRNA [NM_004048]
A_33_P3351249	0.028651122	down	-2.8922467	CXCL16	Homo sapiens chemokine (C-X-C motif) ligand 16 (CXCL16), transcript variant 2, mRNA [NM_001100812]
A_33_P3292854	0.04606215	down	-1.5553663	CALR	Homo sapiens calreticulin (CALR), mRNA [NM_004343]
A_33_P3280385	0.036897637	down	-1.6241232	COL6A3	Homo sapiens collagen, type VI, alpha 3 (COL6A3), transcript variant 3, mRNA [NM_057165]
A_23_P315364	0.048094835	down	-6.3066316	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_23_P94533	0.04181123	down	-3.1553388	CTSL	Homo sapiens cathepsin L (CTSL), transcript variant 1, mRNA [NM_001912]
A_23_P112554	0.012973307	down	-1.9025874	COL15A1	Homo sapiens collagen, type XV, alpha 1 (COL15A1), mRNA [NM_001855]
A_23_P111402	0.039168965	down	-3.5393105	RSPO3	Homo sapiens R-spondin 3 (RSPO3), mRNA [NM_032784]
A_32_P142440	0.03160898	down	-4.4842424	PCSK9	Homo sapiens proprotein convertase subtilisin/kexin type 9 (PCSK9), transcript variant 1, mRNA [NM_174936]
A_23_P30122	0.014566761	down	-2.0826333	IL2	Homo sapiens interleukin 2 (IL2), mRNA [NM_000586]
A_23_P8961	5.10E-04	down	-2.4128914	IL7	Homo sapiens interleukin 7 (IL7), transcript variant 1, mRNA [NM_000880]
A_33_P3382177	0.017115137	down	-1.8615247	TIMP2	Homo sapiens TIMP metalloproteinase inhibitor 2 (TIMP2), mRNA [NM_003255]
A_24_P244706	0.02434364	down	-1.6297488	SSTR1	Homo sapiens somatostatin receptor 1 (SSTR1), mRNA [NM_001049]
A_33_P3251552	0.04017219	down	-2.0559099	RSPO4	Homo sapiens R-spondin 4 (RSPO4), transcript variant 1, mRNA [NM_001029871]
A_24_P257416	0.03703572	down	-3.5145414	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_33_P3272580	0.037699625	down	-1.5141863	FUCA2	Homo sapiens fucosidase, alpha-L- 2, plasma (FUCA2), mRNA [NM_032020]

**Table S22. Significantly downregulated miRs with FC > 1.5 in AA+AIT patients vs AA-AIT patients**

systematic_name	p ([AA + AIT] Vs [AA - AIT])	Regulation ([AA + AIT] Vs [AA - AIT])	FC ([AA + AIT] Vs [AA - AIT])	control_type	start	chr	stop	active_sequence
hsa-miR-28-5p	0.024158344	down	-7.455312	0	189889279	chr3	189889297	CTCAATAGACTGTGAGCTCC
hsa-miR-324-5p	0.04513676	down	-4.0689654	0				ACACCAATGCCCTAGGG
hsa-miR-374b-5p	0.041954704	down	-7.1784043	0	73438413	chrX	73438396	CACCTTAGCAGGTTGTATTA
hsa-miR-1228-3p	0.047235526	down	-4.0796328	0	57588348	chr12	57588357	GGGGGGCGAGG
hsa-miR-151a-5p	0.027208358	down	-11.034382	0	141742693	chr8	141742678	ACTAGACTGTGAGCTCC
hsa-miR-532-3p	0.039720543	down	-3.8990612	0				TGCAAGCCTTGGGTG
hsa-miR-6717-5p	0.03267132	down	-3.2440228	0				TCTCTACATCCCCACATC
hsa-miR-1305	0.047003493	down	-2.8930953	0				TCTCTCCATTAGAGTTGA
hsa-miR-6131	0.046517484	down	-2.9628332	0				CACTCCCATCTGACC
hsa-miR-6734-5p	0.04893714	down	-3.7749765	0				TCTCCACCTCATTCTCC
hsa-miR-98-5p	0.04513293	down	-4.1704364	0	53583226	chrX	53583207	AACAATACAACCTTACTACCTC
hsa-miR-106b-5p	0.029438308	down	-11.049702	0	99691647	chr7	99691632	ATCTGCACTGTGAGCAC
hsa-miR-140-3p	0.013686904	down	-10.485485	0				CCGTGGTTCTACCCT
hsa-miR-30b-5p	0.029909743	down	-8.95347	0	135812800	chr8	135812784	AGCTGAGTGTAGGATGTT
hsa-miR-185-5p	0.010330732	down	-10.844199	0	20020682	chr22	20020697	TCAGGAAGTGCCTTTCT
hsa-miR-30d-5p	0.024484977	down	-8.46326	0	135817145	chr8	135817133	CTTCCAGTCGGGGA
hsa-miR-193a-3p	0.044123504	down	-3.6384697	0				ACTGGGACTTTGTAGGC
hsa-miR-324-3p	0.038454916	down	-3.25746	0	7067411	chr17	7067397	CCAGCAGCACCTGGGG
hsa-miR-146a-5p	0.03280165	down	-4.9754696	0	159912383	chr5	159912400	AACCCATGGAATTCAGTTC
hsa-miR-142-3p	0.03657261	down	-10.200315	0				TCCATAAAGTAGGAAACACTACA
hsa-miR-4306	0.02897919	down	-8.569358	0				TACTGCCTTTCTCTCCA

**Table S23. Significantly upregulated miRs with FC > 1.5 in AA+AIT patients vs AA-AIT patients**

systematic_name	p ([AA + AIT] Vs [AA - AIT])	Regulation ([AA + AIT] Vs [AA - AIT])	FC ([AA + AIT] Vs [AA - AIT])	control_type	start	chr	stop	active_sequence
hsa-miR-3935	0.019666798	up	15.552136	0				GTGGCTGGTGCTCG
hsa-miR-4664-3p	0.041063078	up	7.8833814	0				GACGGGGCTCACA
hsa-miR-3176	0.020715654	up	5.4889126	0				CCGGTAGTCCCAGG
hsa-miR-6824-3p	0.010744545	up	10.463927	0				CTGGGGTGGCAAGA

**Table S24. Significantly upregulated mRNA transcripts, predicted as miR targets of downregulated miRs in AA+P**

ProbeName	p ([AA+] Vs [AA-])	Regulation ([AA+] Vs [AA-])	FC ([AA+] Vs [AA-])	GeneSymbol	Description
A_22_P00025959	0.008267585	up	3.0188756	PTPN14	Homo sapiens protein tyrosine phosphatase, non-receptor type 14 (PTPN14), mRNA [NM_005401]
A_21_P0007218	0.025259802	up	2.10604	BCAS4	breast carcinoma amplified sequence 4 [Source:HGNC Symbol;Acc:HGNC:14367] [ENST00000463943]
A_24_P119201	0.032267425	up	4.3395677	MBD2	Homo sapiens methyl-CpG binding domain protein 2 (MBD2), transcript variant 2, mRNA [NM_015832]
A_23_P34744	0.018902192	up	2.5394428	CTSK	Homo sapiens cathepsin K (CTSK), mRNA [NM_000396]
A_33_P3351765	0.04824749	up	1.5702411	KLHDC10	Homo sapiens kelch domain containing 10 (KLHDC10), mRNA [NM_014997]
A_33_P3312301	0.013374288	up	2.283162	CIT	Homo sapiens citron rho-interacting serine/threonine kinase (CIT), transcript variant 1, mRNA [NM_001206999]
A_24_P3249	0.04727897	up	2.1390593	RARB	Homo sapiens retinoic acid receptor, beta (RARB), transcript variant 1, mRNA [NM_000965]
A_23_P126167	0.03761459	up	1.9106991	KCNN3	Homo sapiens potassium channel, calcium activated intermediate/small conductance subfamily N alpha, member 3 (KCNN3), transcript variant 1, mRNA [NM_002249]
A_33_P3246927	0.020933459	up	3.163219	CSMD2	CUB and Sushi multiple domains 2 [Source:HGNC Symbol;Acc:HGNC:19290] [ENST00000373377]
A_33_P3215883	0.02669955	up	2.7376387	FLT1	Homo sapiens fms-related tyrosine kinase 1 (FLT1), transcript variant 1, mRNA [NM_002019]
A_23_P354908	0.04764134	up	2.035373	NMNAT2	Homo sapiens nicotinamide nucleotide adenylyltransferase 2 (NMNAT2), transcript variant 1, mRNA [NM_015039]
A_33_P3244013	0.028290942	up	2.7207148	NEBL	Homo sapiens nebulin (NEBL), transcript variant 1, mRNA [NM_006393]
A_33_P3217103	0.043945603	up	2.9351823	RBFOX2	Homo sapiens RNA binding protein, fox-1 homolog (C. elegans) 2 (RBFOX2), transcript variant 1, mRNA [NM_001031695]
A_23_P129695	0.022506306	up	5.5913796	VASN	Homo sapiens vasorin (VASN), mRNA [NM_138440]
A_23_P202810	0.038677886	up	4.2564597	OVOL1	Homo sapiens ovo-like zinc finger 1 (OVOL1), mRNA [NM_004561]
A_33_P3403666	0.018223017	up	2.0489354	NDOR1	Homo sapiens NADPH dependent diflavin oxidoreductase 1 (NDOR1), transcript variant 1, mRNA [NM_001144026]
A_23_P55544	0.039754808	up	2.0705285	CCBE1	Homo sapiens collagen and calcium binding EGF domains 1 (CCBE1), mRNA [NM_133459]
A_23_P204751	0.032223113	up	1.8019806	ASIC1	Homo sapiens acid sensing (proton gated) ion channel 1 (ASIC1), transcript variant 1, mRNA [NM_020039]
A_33_P3235990	0.024862397	up	2.7156081	PTPN21	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA [NM_007039]
A_32_P49309	0.007460508	up	3.2892218	MRO	Homo sapiens maestro (MRO), transcript variant 1, mRNA [NM_031939]
A_24_P374943	0.046283748	up	3.106972	CXADR	Homo sapiens coxsackie virus and adenovirus receptor (CXADR), transcript variant 1, mRNA [NM_001338]
A_33_P3264657	0.045290012	up	1.791231	CYP27C1	Homo sapiens cytochrome P450, family 27, subfamily C, polypeptide 1 (CYP27C1), mRNA [NM_001001665]
A_33_P3353372	0.038600575	up	2.0380878	LMBR1	limb development membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:13243] [ENST00000430825]
A_33_P3318097	0.035772443	up	7.6764574	TMPRSS11B	Homo sapiens transmembrane protease, serine 11B (TMPRSS11B), mRNA [NM_182502]
A_23_P393686	0.030650342	up	1.8258917	TDRP	Homo sapiens testis development related protein (TDRP), transcript variant 1, mRNA [NM_175075]
A_33_P3390868	0.010984283	up	2.0363832	SYNPO2	Homo sapiens synaptopodin 2 (SYNPO2), transcript variant 1, mRNA [NM_133477]
A_23_P148422	0.040152688	up	2.0472484	PCYT1B	Homo sapiens phosphate cytidylyltransferase 1, choline, beta (PCYT1B), transcript variant 1, mRNA [NM_004845]
A_21_P0003568	0.02422322	up	2.2027633	FAM90A1	Homo sapiens family with sequence similarity 90, member A1 (FAM90A1), mRNA [NM_018088]
A_24_P330303	0.032011498	up	2.9742773	FRMD6	Homo sapiens FERM domain containing 6 (FRMD6), transcript variant 1, mRNA [NM_001042481]
A_23_P125435	0.03575691	up	1.8281744	GABRB1	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, beta 1 (GABRB1), mRNA [NM_000812]

A_33_P3270429	0.017956872	up	2.2523565	NR1D2	Homo sapiens nuclear receptor subfamily 1, group D, member 2 (NR1D2), transcript variant 3, non-coding RNA [NR_110524]
A_23_P170959	0.042207398	up	2.1120648	LMLN	Homo sapiens leishmanolysin-like (metallopeptidase M8 family) (LMLN), transcript variant 2, mRNA [NM_033029]
A_24_P388786	0.030782059	up	4.549212	DNAH5	Homo sapiens dynein, axonemal, heavy chain 5 (DNAH5), mRNA [NM_001369]
A_24_P938614	0.048504915	up	2.1181788	CDS1	Homo sapiens CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 1 (CDS1), mRNA [NM_001263]
A_23_P152970	0.04191233	up	1.7962584	RAPGEFL1	Rap guanine nucleotide exchange factor (GEF)-like 1 [Source:HGNC Symbol;Acc:HGNC:17428] [ENST00000620260]
A_23_P1102	0.048693117	up	1.8448497	ACTA1	Homo sapiens actin, alpha 1, skeletal muscle (ACTA1), mRNA [NM_001100]
A_24_P941557	0.040118728	up	2.0646484	MVB12B	Homo sapiens multivesicular body subunit 12B (MVB12B), transcript variant 2, mRNA [NM_001011703]
A_22_P00013045	0.04385099	up	2.075084	RGS5	Homo sapiens regulator of G-protein signaling 5 (RGS5), transcript variant 3, mRNA [NM_001254748]
A_33_P3406677	0.035089374	up	1.9658946	ADH7	Homo sapiens alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide (ADH7), transcript variant 2, mRNA [NM_000673]
A_23_P212423	0.035312407	up	1.6784135	XYLB	Homo sapiens xylulokinase homolog (H. influenzae) (XYLB), mRNA [NM_005108]
A_24_P262127	0.035093218	up	3.3187585	RRAD	Homo sapiens Ras-related associated with diabetes (RRAD), transcript variant 2, mRNA [NM_004165]
A_33_P3412468	0.029225534	up	2.051281	SLC25A27	Homo sapiens solute carrier family 25, member 27 (SLC25A27), transcript variant 1, mRNA [NM_004277]

Table S25. Significantly downregulated mRNA transcripts, predicted as miR targets of upregulated miRs in AA+AIT vs AA-AIT

ProbeName	P ([AA+] Vs [AA-])	Regulation ([AA+] Vs [AA-])	FC (abs) ([AA+] Vs [AA-])	FC ([AA+] Vs [AA-])	Log FC ([AA+] Vs [AA-])	GeneSymbol	Description
A_23_P103328	0.049066655	down	2.6242142	-2.6242142	-1.3918854	PTGER3	Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcript variant 4, mRNA [NM_198714]

**Table S26. Flowcytometry Antibodies**

Antigen	Fluorochrome	company	Cat.#	Isotyp	Clone	Dilution
Lineage	FITC	BioLegend	348801	Mouse IgG1 / IgG2a, κ	UCHT1; HCD14; 3G8; HIB19; 2H7; HCD56	1:200
CD45	APC-Cy7	BioLegend	304014	Mouse IgG1, κ	HI30	1:200
CD127 (IL-7Rα)	BV711	BioLegend	351327	Mouse IgG1, κ	A019D5	1:200
CD294 (CRTH2)	BV650	BD	740616	Rat / IgG2a, κ	BM16	1:200
IL-13	APC	BD	561162	Rat IgG1	JES10-5A2	1:50
Fixable viability stain	V510	BD	564406			1:1000

Table S27. Significantly upregulated miRs with FC > 10 in AA-AIT patients versus HC analyzed by miR microarray (see Suppl.Fig.2)

systematic_name	p ([AA - AIT] Vs [HC])	Regulation ([AA - AIT] Vs [HC])	FC (abs) ([AA - AIT] Vs [HC])
hsa-miR-1233-5p	0,002620704	up	10,037859
hsa-miR-125a-5p	0,012394682	up	11,810931
hsa-miR-130a-3p	0,013393003	up	11,306049
hsa-miR-130b-3p	0,007554296	up	15,6091385
hsa-miR-192-5p	0,013092756	up	10,644565
hsa-miR-199a-3p	0,008666725	up	15,315633
hsa-miR-211-3p	0,001573525	up	11,126227
hsa-miR-212-3p	0,002254702	up	10,611317
hsa-miR-362-3p	0,002103268	up	10,970899
hsa-miR-363-3p	0,016679212	up	11,391617
hsa-miR-424-5p	9,31E-04	up	28,406324
hsa-miR-4463	0,002363124	up	10,404692
hsa-miR-451a	0,03072449	up	21,251144
hsa-miR-590-5p	0,008949685	up	12,158628
hsa-miR-6768-5p	0,002414774	up	10,242666
hsa-miR-6772-5p	0,00259458	up	10,065361
hsa-miR-6880-5p	0,002840157	up	10,099302

Table S28. Gene expression changes of string output genes from Fig. 2D in AA-AIT versus HC (see Suppl.Fig.3)

ProbeName	p ([AA-] Vs [HC])	Regulation ([AA-] Vs [HC])	FC ([AA-] Vs [HC])	GeneSymbol	Description
A_23_P127891	0,01149975	down	-1,8091713	BDNF	Homo sapiens brain-derived neurotrophic factor (BDNF), transcript variant 1, mRNA [NM_170735]
A_23_P154894	0,04197503	down	-2,02658	CSTB	Homo sapiens cystatin B (stefin B) (CSTB), mRNA [NM_000100]
A_23_P156061	0,014953146	down	-1,7880483	LNPEP	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), transcript variant 1, mRNA [NM_005575]
A_23_P256413	0,014506795	down	-1,546428	CMTM7	Homo sapiens CKLF-like MARVEL transmembrane domain containing 7 (CMTM7), transcript variant 1, mRNA [NM_138410]
A_23_P37441	0,006178621	down	-1,6903744	B2M	Homo sapiens beta-2-microglobulin (B2M), mRNA [NM_004048]
A_33_P3379886	0,031061854	down	-1,6620039	FGF2	Homo sapiens fibroblast growth factor 2 (basic) (FGF2), mRNA [NM_002006]
A_33_P3351249	0,028651122	down	-2,8922467	CXCL16	Homo sapiens chemokine (C-X-C motif) ligand 16 (CXCL16), transcript variant 2, mRNA [NM_001100812]
A_23_P212617	0,035766084	down	-3,1347427	TFRC	Homo sapiens transferrin receptor (TFRC), transcript variant 1, mRNA [NM_003234]
A_23_P1552	0,03114783	down	-1,9359329	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_33_P3269203	0,009001244	down	-2,067726	SERPINH1	Homo sapiens serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) (SERPINH1), transcript variant 1, mRNA [NM_001207014]
A_33_P3292854	0,04606215	down	-1,5553663	CALR	Homo sapiens calreticulin (CALR), mRNA [NM_004343]
A_33_P3280385	0,036897637	down	-1,6241232	COL6A3	Homo sapiens collagen, type VI, alpha 3 (COL6A3), transcript variant 3, mRNA [NM_057165]
A_23_P315364	0,048094835	down	-6,3066316	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_23_P94533	0,04181123	down	-3,1553388	CTSL	Homo sapiens cathepsin L (CTSL), transcript variant 1, mRNA [NM_001912]
A_24_P277367	0,012249339	down	-3,093352	CXCL5	Homo sapiens chemokine (C-X-C motif) ligand 5 (CXCL5), mRNA [NM_002994]
A_24_P784765	0,004449119	down	-2,5754733	CD59	Homo sapiens CD59 molecule, complement regulatory protein (CD59), transcript variant 1, mRNA [NM_203330]
A_32_P97169	0,021822024	down	-1,6407976	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]
A_24_P412156	0,042167045	down	-1,6281822	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 2, mRNA [NM_000609]
A_23_P112554	0,012973307	down	-1,9025874	COL15A1	Homo sapiens collagen, type XV, alpha 1 (COL15A1), mRNA [NM_001855]
A_24_P365807	0,023668826	down	-1,8524894	EFNB1	Homo sapiens ephrin-B1 (EFNB1), mRNA [NM_004429]
A_23_P48886	0,006874017	down	-1,6188662	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P111402	0,039168965	down	-3,5393105	RSPO3	Homo sapiens R-spondin 3 (RSPO3), mRNA [NM_032784]
A_23_P157580	0,004990098	down	-1,8704803	SDCBP	Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant 1, mRNA [NM_005625]
A_32_P142440	0,03160898	down	-4,4842424	PCSK9	Homo sapiens proprotein convertase subtilisin/kexin type 9 (PCSK9), transcript variant 1, mRNA [NM_174936]
A_23_P30122	0,014566761	down	-2,0826333	IL2	Homo sapiens interleukin 2 (IL2), mRNA [NM_000586]
A_23_P144348	0,025006708	down	-1,6788411	SLIT2	Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant 1, mRNA [NM_004787]
A_23_P8961	5,10E-04	down	-2,4128914	IL7	Homo sapiens interleukin 7 (IL7), transcript variant 1, mRNA [NM_000880]
A_33_P3382177	0,017115137	down	-1,8615247	TIMP2	Homo sapiens TIMP metalloproteinase inhibitor 2 (TIMP2), mRNA [NM_003255]
A_24_P244706	0,02434364	down	-1,6297488	SSTR1	Homo sapiens somatostatin receptor 1 (SSTR1), mRNA [NM_001049]
A_33_P3251552	0,04017219	down	-2,0559099	RSPO4	Homo sapiens R-spondin 4 (RSPO4), transcript variant 1, mRNA [NM_001029871]
A_24_P257416	0,03703572	down	-3,5145414	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_23_P206396	0,029042121	down	-1,5468429	CKLF	Homo sapiens chemokine-like factor (CKLF), transcript variant 5, mRNA [NM_001040138]
A_33_P3272580	0,037699625	down	-1,5141863	FUCA2	Homo sapiens fucosidase, alpha-L- 2, plasma (FUCA2), mRNA [NM_032020]
A_23_P47292	0,023319086	down	-1,7285758	MMP20	Homo sapiens matrix metalloproteinase 20 (MMP20), mRNA [NM_004771]
A_33_P3382856	0,01448115	down	-1,6855268	DCN	Homo sapiens decorin (DCN), transcript variant E, mRNA [NM_133507]
A_23_P111583	0,005921412	down	-1,7987943	CD36	Homo sapiens CD36 molecule (thrombospondin receptor) (CD36), transcript variant 2, mRNA [NM_001001547]
A_33_P3368855	0,029727371	down	-1,5539179	GPC5	Homo sapiens glypican 5 (GPC5), mRNA [NM_004466]

Table S29. Gene expression changes of string output genes from Fig. 3D in AR-AIT versus HC (see Suppl.Fig.4)

ProbeName	p ([AR-] Vs [HC])	Regulation ([AR-] Vs [HC])	FC ([AR-] Vs [HC])	GeneSymbol	Description
A_24_P97526	4,79E-04	down	-2,2261345	CMTM6	Homo sapiens CKLF-like MARVEL transmembrane domain containing 6 (CMTM6), mRNA [NM_017801]
A_33_P3337540	8,48E-04	down	-1,5883385	IFNAR2	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2), transcript variant 2, mRNA [NM_000874]
A_24_P253003	0,043552887	down	-1,9722588	WNT11	Homo sapiens wingless-type MMTV integration site family, member 11 (WNT11), mRNA [NM_004626]
A_23_P1552	0,001068989	down	-1,8945161	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_23_P44274	0,010869389	down	-1,7501987	FGA	Homo sapiens fibrinogen alpha chain (FGA), transcript variant alpha-E, mRNA [NM_000508]
A_33_P3268472	0,01600956	down	-1,7444068	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 3, mRNA [NM_001114173]
A_33_P3385101	0,001118422	down	-1,5662017	TOLLIP	Homo sapiens toll interacting protein (TOLLIP), mRNA [NM_019009]
A_23_P146539	0,014222398	down	-1,6848571	IFNA8	Homo sapiens interferon, alpha 8 (IFNA8), mRNA [NM_002170]
A_33_P3283480	0,014486304	down	-1,73419	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 2, mRNA [NM_148170]
A_23_P48886	0,001128659	down	-1,7597382	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P134601	0,020336712	down	-1,6759638	WNT16	Homo sapiens wingless-type MMTV integration site family, member 16 (WNT16), transcript variant 1, mRNA [NM_057168]
A_23_P146512	0,015922887	down	-1,7237895	GOLM1	Homo sapiens golgi membrane protein 1 (GOLM1), transcript variant 1, mRNA [NM_016548]
A_33_P3243857	0,020603279	down	-1,5195504	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]

Table S30-1. Gene expression changes of string output genes from Fig. 3E in AA-AIT versus HC (see Suppl.Fig.5)

ProbeName	p ([AR-] Vs [H Regulation ([AR-] Vs [HC])	FC ([AR-] Vs [HC])	GeneSymbol	Description
A_23_P371682	0,0407429 up	2,2242882	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]
A_23_P1552	0,00106899 down	-1,8945161	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_33_P3268472	0,01600956 down	-1,7444068	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 3, mRNA [NM_001114173]
A_24_P277367	0,02885906 down	-2,02177	CXCL5	Homo sapiens chemokine (C-X-C motif) ligand 5 (CXCL5), mRNA [NM_002994]
A_24_P784765	0,00295499 down	-1,9054285	CD59	Homo sapiens CD59 molecule, complement regulatory protein (CD59), transcript variant 1, mRNA [NM_203330]
A_32_P97169	0,00874777 down	-1,6421111	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]
A_33_P3283480	0,0144863 down	-1,73419	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 2, mRNA [NM_148170]
A_24_P412156	0,04541582 down	-1,5474916	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 2, mRNA [NM_000609]
A_23_P48886	0,00112866 down	-1,7597382	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P157580	6,93E-05 down	-2,0741844	SDCBP	Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant 1, mRNA [NM_005625]
A_23_P144348	0,00128421 down	-2,1043441	SLIT2	Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant 1, mRNA [NM_004787]
A_33_P3372840	0,00571502 up	1,839947	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 3, mRNA [NM_001033886]
A_23_P111583	0,00864061 down	-1,7669811	CD36	Homo sapiens CD36 molecule (thrombospondin receptor) (CD36), transcript variant 2, mRNA [NM_001001547]
A_33_P3368855	0,00946437 down	-1,7247219	GPC5	Homo sapiens glypican 5 (GPC5), mRNA [NM_004466]
A_33_P3243857	0,02060328 down	-1,5195504	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]

Table S30-2. Gene expression changes of string output genes from Fig. 3E in AR-AIT versus HC (see Suppl.Fig.5)

ProbeName	p ([AA-] Vs [H Regulation ([AA-] Vs [HC])	FC ([AA-] Vs [HC])	GeneSymbol	Description
A_23_P1552	0,03114783 down	-1,9359329	CTSC	Homo sapiens cathepsin C (CTSC), transcript variant 1, mRNA [NM_001814]
A_24_P277367	0,01224934 down	-3,093352	CXCL5	Homo sapiens chemokine (C-X-C motif) ligand 5 (CXCL5), mRNA [NM_002994]
A_24_P784765	0,00444912 down	-2,5754733	CD59	Homo sapiens CD59 molecule, complement regulatory protein (CD59), transcript variant 1, mRNA [NM_203330]
A_32_P97169	0,02182202 down	-1,6407976	GPC6	Homo sapiens glypican 6 (GPC6), mRNA [NM_005708]
A_24_P412156	0,04216705 down	-1,6281822	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 2, mRNA [NM_000609]
A_23_P48886	0,00687402 down	-1,6188662	ADAM10	Homo sapiens ADAM metalloproteinase domain 10 (ADAM10), mRNA [NM_001110]
A_23_P157580	0,0049901 down	-1,8704803	SDCBP	Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant 1, mRNA [NM_005625]
A_23_P144348	0,02500671 down	-1,6788411	SLIT2	Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant 1, mRNA [NM_004787]
A_33_P3372840	0,01777505 up	1,7006797	CXCL12	Homo sapiens chemokine (C-X-C motif) ligand 12 (CXCL12), transcript variant 3, mRNA [NM_001033886]
A_23_P111583	0,00592141 down	-1,7987943	CD36	Homo sapiens CD36 molecule (thrombospondin receptor) (CD36), transcript variant 2, mRNA [NM_001001547]
A_33_P3368855	0,02972737 down	-1,5539179	GPC5	Homo sapiens glypican 5 (GPC5), mRNA [NM_004466]

Table S31. Gene expression changes of string output genes from Fig. 3F in AA-AIT versus HC (see Suppl.Fig.6)

ProbeName	p ([AA-] Vs [HC])	Regulation ([AA-] Vs [HC])	FC ([AA-] Vs [HC])	GeneSymbol	Description
A_23_P154894	0,04197503	down	-2,02658	CSTB	Homo sapiens cystatin B (stefin B) (CSTB), mRNA [NM_000100]
A_23_P156061	0,014953146	down	-1,7880483	LNPEP	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), transcript variant 1, mRNA [NM_005575]
A_23_P37441	0,006178621	down	-1,6903744	B2M	Homo sapiens beta-2-microglobulin (B2M), mRNA [NM_004048]
A_33_P3351249	0,028651122	down	-2,8922467	CXCL16	Homo sapiens chemokine (C-X-C motif) ligand 16 (CXCL16), transcript variant 2, mRNA [NM_001100812]
A_33_P3292854	0,04606215	down	-1,5553663	CALR	Homo sapiens calreticulin (CALR), mRNA [NM_004343]
A_33_P3280385	0,036897637	down	-1,6241232	COL6A3	Homo sapiens collagen, type VI, alpha 3 (COL6A3), transcript variant 3, mRNA [NM_057165]
A_23_P315364	0,048094835	down	-6,3066316	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_23_P94533	0,04181123	down	-3,1553388	CTSL	Homo sapiens cathepsin L (CTSL), transcript variant 1, mRNA [NM_001912]
A_23_P112554	0,012973307	down	-1,9025874	COL15A1	Homo sapiens collagen, type XV, alpha 1 (COL15A1), mRNA [NM_001855]
A_23_P111402	0,039168965	down	-3,5393105	RSPO3	Homo sapiens R-spondin 3 (RSPO3), mRNA [NM_032784]
A_32_P142440	0,03160898	down	-4,4842424	PCSK9	Homo sapiens proprotein convertase subtilisin/kexin type 9 (PCSK9), transcript variant 1, mRNA [NM_174936]
A_23_P30122	0,014566761	down	-2,0826333	IL2	Homo sapiens interleukin 2 (IL2), mRNA [NM_000586]
A_23_P8961	5,10E-04	down	-2,4128914	IL7	Homo sapiens interleukin 7 (IL7), transcript variant 1, mRNA [NM_000880]
A_33_P3382177	0,017115137	down	-1,8615247	TIMP2	Homo sapiens TIMP metalloproteinase inhibitor 2 (TIMP2), mRNA [NM_003255]
A_24_P244706	0,02434364	down	-1,6297488	SSTR1	Homo sapiens somatostatin receptor 1 (SSTR1), mRNA [NM_001049]
A_33_P3251552	0,04017219	down	-2,0559099	RSPO4	Homo sapiens R-spondin 4 (RSPO4), transcript variant 1, mRNA [NM_001029871]
A_24_P257416	0,03703572	down	-3,5145414	CXCL2	Homo sapiens chemokine (C-X-C motif) ligand 2 (CXCL2), mRNA [NM_002089]
A_33_P3272580	0,037699625	down	-1,5141863	FUCA2	Homo sapiens fucosidase, alpha-L- 2, plasma (FUCA2), mRNA [NM_032020]

Table S32. Significantly downregulated miRs with FC > 1.5 in AA+AIT patients vs AA-AIT patients (see Suppl.Fig.7)

systematic_name	p ([AA + AIT] Vs [AA - AIT])	Regulation ([AA + AIT] Vs [AA - AIT])	FC ([AA + AIT] Vs [AA - AIT])
hsa-miR-106b-5p	0,029438308	down	-11,049702
hsa-miR-1228-3p	0,047235526	down	-4,0796328
hsa-miR-1305	0,047003493	down	-2,8930953
hsa-miR-140-3p	0,013686904	down	-10,485485
hsa-miR-142-3p	0,03657261	down	-10,200315
hsa-miR-146a-5p	0,03280165	down	-4,9754696
hsa-miR-151a-5p	0,027208358	down	-11,034382
hsa-miR-185-5p	0,010330732	down	-10,844199
hsa-miR-193a-3p	0,044123504	down	-3,6384697
hsa-miR-28-5p	0,024158344	down	-7,455312
hsa-miR-30b-5p	0,029909743	down	-8,95347
hsa-miR-30d-5p	0,024484977	down	-8,46326
hsa-miR-324-3p	0,038454916	down	-3,25746
hsa-miR-324-5p	0,04513676	down	-4,0689654
hsa-miR-374b-5p	0,041954704	down	-7,1784043
hsa-miR-4306	0,02897919	down	-8,569358
hsa-miR-532-3p	0,039720543	down	-3,8990612
hsa-miR-6131	0,046517484	down	-2,9628332
hsa-miR-6717-5p	0,03267132	down	-3,2440228
hsa-miR-6734-5p	0,04893714	down	-3,7749765
hsa-miR-98-5p	0,04513293	down	-4,1704364

Table S33. Significantly upregulated miRs with FC > 1.5 in AA+AIT patients vs AA-AIT patients (see Suppl.Fig.8)

systematic_name	p ([AA + AIT] Vs [AA - AIT])	Regulation ([AA + AIT] Vs [AA - AIT])	FC ([AA + AIT] Vs [AA - AIT])
hsa-miR-3176	0,020715654	up	5,4889126
hsa-miR-3935	0,019666798	up	15,552136
hsa-miR-4664-3p	0,041063078	up	7,8833814
hsa-miR-6824-3p	0,010744545	up	10,463927

Table S34. Significantly upregulated mRNA transcripts, predicted as miR targets of downregulated miRs in AA+AIT vs. AA-AIT (see Suppl.Fig.9)

ProbeName	p ([AA+] Vs [AA-])	Regulation ([AA+] Vs [AA-])	FC ([AA+] Vs [AA-])	GeneSymbol	Description
A_32_P223777	0,048167884	down	-1,7246135	IL6ST	Homo sapiens interleukin 6 signal transducer (IL6ST), transcript variant 1, mRNA [NM_002184]
A_22_P00025959	0,008267585	up	3,0188756	PTPN14	Homo sapiens protein tyrosine phosphatase, non-receptor type 14 (PTPN14), mRNA [NM_005401]
A_21_P0007218	0,025259802	up	2,10604	BCAS4	breast carcinoma amplified sequence 4 [Source:HGNC Symbol;Acc:HGNC:14367] [ENST00000463943]
A_23_P503072	0,025386205	down	-2,0975192	CCL28	Homo sapiens chemokine (C-C motif) ligand 28 (CCL28), transcript variant 1, mRNA [NM_148672]
A_24_P119201	0,032267425	up	4,3395677	MBD2	Homo sapiens methyl-CpG binding domain protein 2 (MBD2), transcript variant 2, mRNA [NM_015832]
A_23_P34744	0,018902192	up	2,5394428	CTSK	Homo sapiens cathepsin K (CTSK), mRNA [NM_000396]
A_24_P167338	0,040108997	down	-1,8014033	RAB30	Homo sapiens RAB30, member RAS oncogene family (RAB30), transcript variant 2, mRNA [NM_014488]
A_33_P3351765	0,04824749	up	1,5702411	KLHDC10	Homo sapiens kelch domain containing 10 (KLHDC10), mRNA [NM_014997]
A_23_P134433	0,03839302	down	-1,6345108	EN2	Homo sapiens engrailed homeobox 2 (EN2), mRNA [NM_001427]
A_24_P82466	0,036661003	down	-2,0606017	GAS7	Homo sapiens growth arrest-specific 7 (GAS7), transcript variant c, mRNA [NM_201433]
A_33_P3312301	0,013374288	up	2,283162	CIT	Homo sapiens citron rho-interacting serine/threonine kinase (CIT), transcript variant 1, mRNA [NM_001206999]
A_33_P3224680	0,045581456	down	-1,5585234	TRMT13	tRNA methyltransferase 13 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:25502] [ENST00000370143]
A_24_P13041	0,00242736	down	-4,0164514	RTKN2	Homo sapiens rhotekin 2 (RTKN2), transcript variant 1, mRNA [NM_145307]
A_24_P3249	0,04727897	up	2,1390593	RARB	Homo sapiens retinoic acid receptor, beta (RARB), transcript variant 1, mRNA [NM_000965]
A_23_P126167	0,03761459	up	1,9106991	KCNK3	Homo sapiens potassium channel, calcium activated intermediate/small conductance subfamily N alpha, member 3 (KCNK3), transcript variant 1, mRNA [NM_002249]
A_33_P3246927	0,020933459	up	3,163219	CSMD2	CUB and Sushi multiple domains 2 [Source:HGNC Symbol;Acc:HGNC:19290] [ENST00000373377]
A_33_P3215883	0,02669955	up	2,7376387	FLT1	Homo sapiens fms-related tyrosine kinase 1 (FLT1), transcript variant 1, mRNA [NM_002019]
A_24_P404494	0,046840604	down	-1,9488704	IL7R	Homo sapiens interleukin 7 receptor (IL7R), transcript variant 1, mRNA [NM_002185]
A_23_P354908	0,04764134	up	2,035373	NMNAT2	Homo sapiens nicotinamide nucleotide adenyltransferase 2 (NMNAT2), transcript variant 1, mRNA [NM_015039]
A_33_P3244013	0,028290942	up	2,7207148	NEBL	Homo sapiens nebulin (NEBL), transcript variant 1, mRNA [NM_006393]
A_33_P3217103	0,043945603	up	2,9351823	RBFOX2	Homo sapiens RNA binding protein, fox-1 homolog (C. elegans) 2 (RBFOX2), transcript variant 1, mRNA [NM_001031695]
A_23_P103328	0,049066655	down	-2,6242142	PTGER3	Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcript variant 4, mRNA [NM_198714]
A_23_P129695	0,022506306	up	5,5913796	VASN	Homo sapiens vasorin (VASN), mRNA [NM_138440]
A_23_P202810	0,038677886	up	4,2564597	OVOL1	Homo sapiens ovo-like zinc finger 1 (OVOL1), mRNA [NM_004561]
A_33_P3403666	0,018223017	up	2,0489354	NDOR1	Homo sapiens NADPH dependent flavin oxidoreductase 1 (NDOR1), transcript variant 1, mRNA [NM_001144026]
A_23_P55544	0,039754808	up	2,0705285	CCBE1	Homo sapiens collagen and calcium binding EGF domains 1 (CCBE1), mRNA [NM_133459]
A_33_P3288649	0,031899925	down	-1,7332913	HOXA10	Homo sapiens homeobox A10 (HOXA10), transcript variant 1, mRNA [NM_018951]
A_23_P204751	0,032223113	up	1,8019806	ASIC1	Homo sapiens acid sensing (proton gated) ion channel 1 (ASIC1), transcript variant 1, mRNA [NM_020039]
A_33_P3290909	0,021788448	down	-1,6973042	SMC1A	Homo sapiens structural maintenance of chromosomes 1A (SMC1A), transcript variant 2, mRNA [NM_001281463]
A_33_P3235990	0,024862397	up	2,27156081	PTPN21	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA [NM_007039]
A_32_P49309	0,007460508	up	3,2892218	MRO	Homo sapiens maestro (MRO), transcript variant 1, mRNA [NM_031939]
A_24_P374943	0,046283748	up	3,106972	CXADR	Homo sapiens coxsackie virus and adenovirus receptor (CXADR), transcript variant 1, mRNA [NM_001338]
A_33_P3264657	0,045290012	up	1,791231	CYP27C1	Homo sapiens cytochrome P450, family 27, subfamily C, polypeptide 1 (CYP27C1), mRNA [NM_001001665]
A_33_P3353372	0,038600575	up	2,0380878	LMBR1	limb development membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:13243] [ENST00000430825]
A_33_P3318097	0,035772443	up	7,6764574	TMPPRS11B	Homo sapiens transmembrane protease, serine 11B (TMPPRS11B), mRNA [NM_182502]
A_23_P393686	0,030650342	up	1,8258917	TDRP	Homo sapiens testis development related protein (TDRP), transcript variant 1, mRNA [NM_175075]
A_33_P3390868	0,010984283	up	2,0363832	SYNPO2	Homo sapiens synaptopodin 2 (SYNPO2), transcript variant 1, mRNA [NM_133477]
A_23_P148422	0,040152688	up	2,0472484	PCYT1B	Homo sapiens phosphate cytidylyltransferase 1, choline, beta (PCYT1B), transcript variant 1, mRNA [NM_004845]
A_23_P145724	0,018119773	down	-2,8103912	PPP1R17	Homo sapiens protein phosphatase 1, regulatory subunit 17 (PPP1R17), transcript variant 1, mRNA [NM_006658]
A_24_P230563	9,82E-04	down	-2,7606	IL2RA	Homo sapiens interleukin 2 receptor, alpha (IL2RA), mRNA [NM_000417]
A_21_P0003568	0,02422322	up	2,2027633	FAM90A1	Homo sapiens family with sequence similarity 90, member A1 (FAM90A1), mRNA [NM_018088]
A_24_P330303	0,032011498	up	2,9742773	FRMD6	Homo sapiens FERM domain containing 6 (FRMD6), transcript variant 1, mRNA [NM_001042481]
A_23_P125435	0,03575691	up	1,8281744	GABRB1	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, beta 1 (GABRB1), mRNA [NM_000812]
A_33_P3270429	0,017956872	up	2,2523565	NR1D2	Homo sapiens nuclear receptor subfamily 1, group D, member 2 (NR1D2), transcript variant 3, non-coding RNA [NR_110524]
A_23_P170959	0,042207398	up	2,1120648	LMLN	Homo sapiens leishmanolysin-like (metallopeptidase M8 family) (LMLN), transcript variant 2, mRNA [NM_033029]
A_23_P53081	0,016007109	down	-2,0661738	OSBPL5	Homo sapiens oxysterol binding protein-like 5 (OSBPL5), transcript variant 1, mRNA [NM_020896]
A_23_P143952	0,03533866	down	-1,9169922	CEP97	Homo sapiens centrosomal protein 97kDa (CEP97), transcript variant 1, mRNA [NM_024548]
A_24_P388786	0,030782059	up	4,549212	DNAH5	Homo sapiens dynein, axonemal, heavy chain 5 (DNAH5), mRNA [NM_001369]
A_33_P3308964	0,040309146	down	-2,3595586	PPP1R17	Homo sapiens protein phosphatase 1, regulatory subunit 17 (PPP1R17), transcript variant 1, mRNA [NM_006658]
A_24_P938614	0,048504915	up	2,1181788	CDS1	Homo sapiens CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1 (CDS1), mRNA [NM_001263]
A_23_P152970	0,04191233	up	1,7962584	RAPGEFL1	Rap guanine nucleotide exchange factor (GEF)-like 1 [Source:HGNC Symbol;Acc:HGNC:17428] [ENST00000620260]
A_23_P1102	0,048693117	up	1,8448497	ACTA1	Homo sapiens actin, alpha 1, skeletal muscle (ACTA1), mRNA [NM_001100]
A_24_P941557	0,040118728	up	2,0646484	MVB12B	Homo sapiens multivesicular body subunit 12B (MVB12B), transcript variant 2, mRNA [NM_001011703]
A_23_P408955	0,044903386	down	-1,6617346	E2F2	Homo sapiens E2F transcription factor 2 (E2F2), mRNA [NM_004091]
A_32_P34920	0,03842371	down	-1,804366	FOXD1	Homo sapiens forkhead box D1 (FOXD1), mRNA [NM_004472]
A_22_P00013045	0,04385099	up	2,075084	RG55	Homo sapiens regulator of G-protein signaling 5 (RG55), transcript variant 3, mRNA [NM_001254748]
A_33_P3406677	0,035089374	up	1,9658946	ADH7	Homo sapiens alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide (ADH7), transcript variant 2, mRNA [NM_000673]
A_23_P212423	0,035312407	up	1,6784135	XYLB	Homo sapiens xylulokinase homolog (H. influenzae) (XYLB), mRNA [NM_005108]
A_24_P262127	0,035093218	up	3,3187585	RRAD	Homo sapiens Ras-related associated with diabetes (RRAD), transcript variant 2, mRNA [NM_004165]
A_33_P3412468	0,029225534	up	2,051281	SLC25A27	Homo sapiens solute carrier family 25, member 27 (SLC25A27), transcript variant 1, mRNA [NM_004277]
A_33_P3355185	0,04863243	down	-1,5764586	BCL2	Homo sapiens B-cell CLL/lymphoma 2 (BCL2), transcript variant beta, mRNA [NM_000657]

Table S35. Significantly downregulated mRNA transcripts, predicted as miR targets of upregulated miRs in AA+AIT vs AA-AIT (see Suppl.Fig.10)

ProbeName	p ([AA+] Vs [AA-])	Regulation ([AA+] Vs [AA-])	FC ([AA+] Vs [AA-])	GeneSymbol	Description
A_23_P103328	0,049066655	down	-2,6242142	PTGER3	Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcript variant 4, mRNA [NM_198714]