**Table S1: TesaNPY\_vs\_FP\_NPY\_upregulated genes**

|  |
| --- |
| logFC "AveExpr" "t" "P.Value" "adj.P.Val" "B" |
| Cyp2f2 5.44246488977213 8.76760359881106 4.25857721400177 0.00522504037346718 0.721037399657979 -3.90247758967388 |
| Cyp2e1 4.60414264702316 13.9978667840944 4.72775488687481 0.00315782228360406 0.721037399657979 -3.85365792388808 |
| Ighv3-6 4.05395011597839 8.34857169882455 4.20421464064088 0.00555051017623956 0.721037399657979 -3.90880488314574 |
| Igkv3-10 3.72973354625719 8.1675986104829 6.22676289761401 0.000767088783565659 0.721037399657979 -3.74879954372969 |
| Ighv1-4 3.12386440330573 7.36220648584986 3.93930160811689 0.00749863628473075 0.721037399657979 -3.9418896542102 |
| Cxcl13 3.0089803961951 11.4877038916033 6.56676095927459 0.000576682551043659 0.721037399657979 -3.73247689667145 |
| Ces1d 2.94653992274302 9.65037377949216 4.49036554002748 0.00405807821796683 0.721037399657979 -3.87712063009044 |
| Ighv2-9-1 2.41433957059453 8.96629973244345 7.74536846901382 0.000233170770603559 0.721037399657979 -3.68914960310173 |
| Ighv2-6-8 2.33956376763721 8.93674232563921 8.47734674831746 0.000140573689764323 0.721037399657979 -3.66972811966527 |
| Nrn1 2.19970068845879 8.84648913860944 4.82890624886673 0.00284455988812704 0.721037399657979 -3.84436357949436 |
| Krt18 2.19123747106521 6.95110611964004 3.75500041946097 0.00930287247898771 0.721037399657979 -3.96728413303823 |
| Igkv4-68 2.14847607778499 6.31840630753425 3.94467403681663 0.00745223842397658 0.721037399657979 -3.94117977903825 |
| Igkv3-2 2.01258062680686 7.40452990474135 3.70006275332934 0.00993041380517895 0.721037399657979 -3.97525965071382 |
| Ighv9-1 2.0096042186157 7.72825973767356 3.98556107485104 0.00710943202310073 0.721037399657979 -3.93583177338086 |
| Dpyd 1.86358232800928 8.8236901858457 4.28808114208349 0.00505739301529754 0.721037399657979 -3.89910600646836 |
| Krt8 1.76104241907466 7.53010659146079 4.28606962354564 0.00506862924262104 0.721037399657979 -3.89933449738773 |
| Ighv8-8 1.75463956935698 7.35293081946586 4.07085017170392 0.00644954027795463 0.721037399657979 -3.92498023186395 |
| Ighv9-4 1.73379109244139 6.9558228188036 4.3936840982675 0.00450496053246565 0.721037399657979 -3.88738746847959 |
| F830016B08Rik 1.59541654373476 8.07870082418404 3.70889453308231 0.00982643819910017 0.721037399657979 -3.97396452631378 |
| Nipsnap1 1.45613067574814 7.39363135782086 3.7213133893712 0.00968226835886145 0.721037399657979 -3.97215183133965 |
| Gm24669 1.3739309870275 6.8438999119711 7.5354926970537 0.000271598755444575 0.721037399657979 -3.69563003175954 |
| Gm22488 1.36627807753013 8.10751440235051 4.19812940004149 0.00558833512284081 0.721037399657979 -3.90952255424466 |
| Erbb3 1.32300980151012 6.85258338878703 3.71029848172932 0.00981002110770978 0.721037399657979 -3.97375910705441 |
| Gm24149 1.27431170049121 11.444134446412 4.85439217428114 0.00277127465406623 0.721037399657979 -3.84208423832367 |
| Gm25618 1.2718247537064 12.0041569645836 3.91498738175869 0.00771268533435515 0.721037399657979 -3.94512338968996 |
| Mir1946b 1.24758809309545 10.8165460314956 4.04347700128377 0.00665356580919762 0.721037399657979 -3.92841882639717 |
| Igkv3-4 1.24296486261246 6.05747491093152 5.29508479576313 0.00178904014393155 0.721037399657979 -3.8063000303894 |
| Gm4788 1.24013243193279 9.88070667503537 5.13572612769852 0.00208964261928159 0.721037399657979 -3.81848679205864 |
| Gm24592 1.23489464502379 12.5533172891469 4.03139037015765 0.0067459394879034 0.721037399657979 -3.92995033302863 |
| Gm26122 1.23010712781966 11.9742322279638 3.76815762690154 0.00915919573840964 0.721037399657979 -3.96540237682492 |
| Akr1c19 1.22959876352642 6.17281297215446 3.8664142728408 0.00816097750088364 0.721037399657979 -3.9516878033749 |
| Gm25812 1.22680122762929 8.14965391966079 4.29989493979213 0.00499196310228588 0.721037399657979 -3.89776810260065 |
| Ighv8-6 1.22106252646806 6.96346243618679 3.81024277202136 0.00871591818043197 0.721037399657979 -3.95945570907405 |
| Dsg2 1.21484889333179 6.10754339872475 4.35314932714229 0.00470857265256735 0.721037399657979 -3.89182190583816 |
| Id2 1.19711974320037 11.8340976991482 5.85403834016811 0.00106359603916982 0.721037399657979 -3.76929878516299 |
| Aspg 1.18389730824 5.75652770543996 3.91561999386695 0.00770703065932413 0.721037399657979 -3.94503881554549 |
| Igkv3-3 1.16495295466985 6.33852218079986 4.21572614415994 0.00547973818295856 0.721037399657979 -3.90745247264028 |
| Aldh7a1 1.15979508737107 9.50639120876853 3.69842963691369 0.00994977360246232 0.721037399657979 -3.97549968587653 |
| Gm23138 1.15328105237119 9.11563052997356 4.13959737274822 0.00596727714961914 0.721037399657979 -3.91652411743204 |
| Gm26430 1.14461659954712 12.7089876319209 3.819374227748 0.00862291694530079 0.721037399657979 -3.95817985742769 |
| Gm5834 1.13283381461663 10.0496357649646 4.1023201035876 0.00622357077318601 0.721037399657979 -3.92107769009524 |
| Gm23846 1.12160808966521 8.58900386984249 5.00048299266932 0.00239023280735117 0.721037399657979 -3.82948256757145 |
| Gm22308 1.11199026961277 13.2605319174302 3.78740724375635 0.00895340848944392 0.721037399657979 -3.96266876427142 |
| Gm26071 1.09201519275866 10.7210853163872 3.92268016342153 0.0076442349321757 0.721037399657979 -3.94409653140474 |
| Gm25538 1.08582480411751 7.42174559877693 5.44016448059788 0.0015574885143627 0.721037399657979 -3.79587938765406 |
| Ighv6-7 1.0842504601939 6.81960992118979 5.28728142364558 0.00180256215156815 0.721037399657979 -3.8068782839738 |
| Gm23412 1.08142843460559 12.6606209621705 3.74903141384454 0.00936887747619094 0.721037399657979 -3.96814141104041 |
| Gm22392 1.07321943846495 12.9863097957897 4.20989029887602 0.00551548943873012 0.721037399657979 -3.90813723649437 |
| Gm19980 1.07078272414564 7.41902025007083 3.74286049417073 0.00943766207582753 0.721037399657979 -3.96903004912804 |
| Gm26485 1.05662524396853 10.4068602568338 3.97102358373539 0.00722926118148368 0.721037399657979 -3.93772228010867 |
| Gm25810 1.05153050336352 11.4137727512507 3.80627725242127 0.00875665257330049 0.721037399657979 -3.96001136745341 |
| Gm25815 1.01852918663055 9.10986395669791 4.69821216212232 0.00325653549988156 0.721037399657979 -3.85644909255991 |
| Gm26228 1.01395262074337 7.48740688426536 5.04225509904393 0.00229245295697265 0.721037399657979 -3.82601965651609 |
| Cfhr2 1.01302303679701 9.98960317474951 3.83048605084449 0.00851123090292908 0.721037399657979 -3.9566341877496 |
| Gm23151 1.00300305734691 10.418850977668 3.73919997321633 0.00947872900852665 0.721037399657979 -3.96955831598624 |
| Gm24121 0.997627506064211 8.58738411834368 6.35423529012504 0.0006883171130391 0.721037399657979 -3.74243455302526 |
| Gm24457 0.992922689149538 7.61833788591339 4.46434579840014 0.00417323636274088 0.721037399657979 -3.87984152603714 |
| Hook1 0.991956690379319 6.45012205578964 3.88439030956741 0.0079917764516869 0.721037399657979 -3.949242097914 |
| Gm24917 0.978813278790377 7.98429531816394 4.02271070111808 0.00681315839303738 0.721037399657979 -3.93105516333349 |
| Gm25897 0.976204194522512 8.20094896391817 4.81084477056522 0.00289782257668563 0.721037399657979 -3.84599392616898 |
| Gm22753 0.972491916184983 7.54197515940669 4.3094424343733 0.00493977847224689 0.721037399657979 -3.89669188249317 |
| Gm25581 0.964353856553877 12.7807951729293 3.83718467035778 0.00844467992646541 0.721037399657979 -3.95570603575702 |
| Gm25354 0.940615307745073 8.01674316195936 5.54645472503147 0.00140941515037969 0.721037399657979 -3.78862632155849 |
| Gm22045 0.937441122009543 8.84950333898889 3.73074622228347 0.0095743303300267 0.721037399657979 -3.97078155887891 |
| Gm25020 0.934750234529633 9.1520913103132 6.44766705174661 0.000636442704746055 0.721037399657979 -3.73795958332085 |
| Tnfrsf13c 0.932156061680903 5.50007339423333 3.84475591138752 0.00837015516993336 0.721037399657979 -3.95466025443065 |
| Gm25039 0.931487656244584 11.1376773563035 3.8639527952656 0.00818445513167364 0.721037399657979 -3.95202420138119 |
| Gm23540 0.910214492167759 7.67146839588826 3.83714333932578 0.00844508877322741 0.721037399657979 -3.95571175416863 |
| Gm25818 0.90687489171225 15.1253397717957 4.21454882068264 0.00548692968605878 0.721037399657979 -3.9075904762078 |
| Gm22151 0.903042005377777 8.01377736309929 4.79225518540069 0.00295382268841919 0.721037399657979 -3.8476850800104 |
| Gm22113 0.898730068542636 9.81772711940505 3.81492381545112 0.00866810459674881 0.721037399657979 -3.95880103271795 |
| Gm11192 0.897569137107823 7.43408987584318 3.71587152395823 0.00974515195994889 0.721037399657979 -3.97294492972055 |
| Gm22454 0.893051512105301 6.41417163419909 4.28015812940943 0.00510181290606586 0.721037399657979 -3.90000715361486 |
| Gm23928 0.887200985329029 14.3662075030889 4.01924063334095 0.00684024097448929 0.721037399657979 -3.93149804543239 |
| Gm24842 0.88396803073567 11.2329191920295 4.55215684776356 0.00379866032793482 0.721037399657979 -3.87078052889708 |
| Gm23730 0.86920076564232 10.2340406188842 4.09429744725921 0.00628032493639621 0.721037399657979 -3.92206745917641 |
| Gm23096 0.864019077040578 7.29503070202314 3.69569272247725 0.00998231225417718 0.721037399657979 -3.97590234198609 |
| Gm22297 0.863830874384189 6.46270702633754 5.05760034172809 0.00225767738245718 0.721037399657979 -3.82476269386506 |
| Tmem102 0.855515947108224 5.36870169691492 3.88681270943132 0.00796927543387089 0.721037399657979 -3.94891399496274 |
| Gm8260 0.853460476915585 11.3754361007159 4.8713167752196 0.00272378746237728 0.721037399657979 -3.84058414864188 |
| Mpzl2 0.846949244458905 5.77190875959947 3.71008492444462 0.00981251638038822 0.721037399657979 -3.97379034562442 |
| Gm23378 0.84543625825168 5.97030620607362 3.77293648484992 0.00910762187404328 0.721037399657979 -3.96472158285038 |
| Gm26245 0.842051195846651 9.03205937027275 3.79291642875006 0.00889546174317521 0.721037399657979 -3.9618906503308 |
| Gm23097 0.8228756560282 5.7886443055268 5.06919302899136 0.00223180209637545 0.721037399657979 -3.82381845224349 |
| Gm25134 0.822175509354755 9.71043023200785 4.05469689919577 0.00656907904734391 0.721037399657979 -3.9270043959899 |
| Gm5611 0.81241257419891 8.02183506999108 4.36241843699121 0.00466111655904752 0.721037399657979 -3.89080097156141 |
| Trav3-1 0.808791554911 6.10429963935753 6.24252933983131 0.000756807532859563 0.721037399657979 -3.74799552623453 |
| Gm22260 0.808056432272346 9.64409572694021 4.49259006307348 0.00404840001247091 0.721037399657979 -3.87688943037074 |
| Gm24705 0.800782528004912 8.84204510695473 4.52227248745982 0.00392171592405722 0.721037399657979 -3.87382567108545 |
| Gm23749 0.793013193425099 6.74068477500442 4.1373801810578 0.00598218645271189 0.721037399657979 -3.91679288083151 |
| Snord90 0.784410427673327 6.82990150679895 5.22071385758502 0.00192275192436562 0.721037399657979 -3.81188751245583 |
| Gm22126 0.784181527238353 14.8560778762049 3.7934895814845 0.00888945716882262 0.721037399657979 -3.96180980651916 |
| Gm24316 0.783034837238173 6.02974196712807 4.00450793418543 0.00695656999867583 0.721037399657979 -3.93338589869914 |
| Gm23987 0.782716073016125 6.47197771267358 4.93212204601456 0.0025606158617151 0.721037399657979 -3.83528260430245 |
| Igsf5 0.78049519092874 5.61568042303344 3.92282181684141 0.00764298086133431 0.721037399657979 -3.94407765553732 |
| Gm15538 0.773405757123143 10.1348073240612 4.24718128771816 0.00529145534941289 0.721037399657979 -3.90379154254935 |
| Gm25204 0.7706272861435 6.24888321166639 4.52928954163534 0.00389242339305323 0.721037399657979 -3.87310711452728 |
| Igkv1-99 0.762362541565413 6.29784187931946 4.22419299363055 0.00542832967704334 0.721037399657979 -3.90646209513326 |
| Gm11913 0.754571937069871 5.53989503035206 3.73108700189066 0.00957045591515365 0.721037399657979 -3.97073216098669 |
| Gm22717 0.750168730364278 6.09970317458195 4.28954160348487 0.00504925246860214 0.721037399657979 -3.89894023645814 |
| Gm26442 0.741765176691681 10.2137666315608 4.08708760729561 0.00633182299844274 0.721037399657979 -3.92295992524217 |
| Gm15199 0.739612811124212 6.17242266809545 4.8006004094848 0.00292853328556725 0.721037399657979 -3.84692423240893 |
| Gm25329 0.739492601936106 4.75787144705384 4.97157501465461 0.00246066623839231 0.721037399657979 -3.83191487877242 |
| Gm25589 0.735430558606505 6.04635691934826 4.16727715214583 0.00578460476404021 0.721037399657979 -3.91319071102203 |
| Gm13313 0.734557949458777 6.59395913722643 4.92770382683075 0.00257209224908466 0.721037399657979 -3.83566324820868 |
| Olfr1198 0.733165771659918 5.54411819747882 6.39850043604619 0.000663160152138578 0.721037399657979 -3.74029491326124 |
| Gm6461 0.732440125777313 7.14948998656967 4.52317727798248 0.0039179249959364 0.721037399657979 -3.87373289677964 |
| Gm25986 0.730686070851016 9.25589788624259 5.26904401380324 0.00183461974370112 0.721037399657979 -3.80823699996158 |
| Gm22977 0.724845564111344 7.07990184364709 4.14225524077114 0.00594945932032904 0.721037399657979 -3.91620228004664 |
| Gm23615 0.720026698526571 6.11129643407371 4.28736762106457 0.00506137550208226 0.721037399657979 -3.89918703326293 |
| Gm24415 0.719932564160687 6.60191625349808 5.6350065708398 0.00129821162800687 0.721037399657979 -3.7828168011517 |
| Gm22155 0.716131363100488 14.4321751160768 4.0587668277622 0.00653872887423686 0.721037399657979 -3.92649304124706 |
| Gm12431 0.713449244694645 6.27779549268267 3.94320521935941 0.00746489169854488 0.721037399657979 -3.94137369199802 |
| Gm23435 0.70996981870613 7.11261374181509 3.70962170139194 0.00981793124788165 0.721037399657979 -3.97385811465359 |
| Gm5942 0.706219046114293 6.24512847689636 4.06939553817754 0.00646020479601917 0.721037399657979 -3.92516192464075 |
| Gm9060 0.704540217553195 5.69410266200291 4.15301187444968 0.00587795443451278 0.721037399657979 -3.91490359534961 |
| Gm24626 0.690306056062486 7.11563895508935 4.30443358543971 0.00496707906899035 0.721037399657979 -3.89725593498861 |
| Mir107 0.682635954750076 6.27692313434613 4.90523978715244 0.00263135065419102 0.721037399657979 -3.83760962827644 |
| Gm9522 0.680384184591793 8.06658980665425 4.21193133710887 0.00550295610636546 0.721037399657979 -3.90789754727064 |
| Gm19840 0.676137078605861 5.16919806527214 3.81792969555255 0.00863755536461645 0.721037399657979 -3.95838134797451 |
| Gm23678 0.674528670268954 10.351902255822 3.89497258479543 0.00789399789532347 0.721037399657979 -3.94781134143784 |
| Gm24735 0.673384144179182 6.58641974700644 4.17195219393187 0.00575437398253089 0.721037399657979 -3.91263168548435 |
| Gm14650 0.667921531907472 8.9547085630914 3.7225854817229 0.00966763364005204 0.721037399657979 -3.97196670879413 |
| Gm11749 0.662747017731717 5.0866622043731 4.35441978387041 0.00470203618031941 0.721037399657979 -3.89168172924152 |
| Gm23462 0.662413795561183 7.84230328503209 3.80964136891922 0.00872208231169836 0.721037399657979 -3.95953991698025 |
| Gm23966 0.662063776611108 7.17507302872131 4.61713540375797 0.00354581910386753 0.721037399657979 -3.86429332095141 |
| Gbp11 0.649747036053681 8.14344009125274 5.29848594351564 0.00178318257319805 0.721037399657979 -3.80604857545873 |
| Gm12044 0.649557567908774 4.38887333873042 3.94006730784726 0.00749200384881268 0.721037399657979 -3.94178837763866 |
| Gm20513 0.648081115493775 6.1811782918754 5.65160457797593 0.00127849866368149 0.721037399657979 -3.78175066029023 |
| Olfr794 0.647442164095511 5.08609467412523 4.35188476628525 0.00471508892479296 0.721037399657979 -3.89196150893496 |
| Gm17604 0.641339064272653 10.2857617742536 5.73804669670009 0.00118118917590752 0.721037399657979 -3.77631097227612 |
| Gm23470 0.640803059848027 6.96250815953881 5.17620353287708 0.00200819007133512 0.721037399657979 -3.81531468693272 |
| Gm25526 0.640380082259506 6.87602648839655 3.89799491116021 0.00786631713250978 0.721037399657979 -3.94740393253782 |
| Gm14275 0.633170613810492 6.98722149571766 4.22040475678985 0.00545126376416711 0.721037399657979 -3.90690475647008 |
| Pramef17 0.627060599854639 4.96809883083052 5.53461936100415 0.00142508399965396 0.721037399657979 -3.78941859793961 |
| Gm22264 0.626846886160602 7.96496028804031 3.89971350142524 0.00785062518814435 0.721037399657979 -3.94717250798283 |
| Gm24921 0.622703471932276 6.13272307897161 4.16048139556484 0.00582886652048812 0.721037399657979 -3.91400536792124 |
| Gm11111 0.619890777996223 7.98027669557843 4.76409020161147 0.00304101322338716 0.721037399657979 -3.85027299708843 |
| Gm11172 0.61897009398925 10.9721689260224 3.85317629775559 0.00828813008921749 0.721037399657979 -3.95350125923252 |
| Gm25343 0.618050625278023 5.88386719271718 4.54970141080369 0.00380860549177395 0.721037399657979 -3.87102925245698 |
| Gm22739 0.602364586882053 13.333752816395 3.72808442464906 0.00960465295920265 0.721037399657979 -3.97116765505347 |
| Gm12954 0.60203350863916 4.7816016661694 5.77173176051881 0.00114557675858731 0.721037399657979 -3.77424132840687 |
| Olfr44 0.594875179979597 6.66369720481853 3.97590140810222 0.00718880510763394 0.721037399657979 -3.93708660493871 |
| Olfr1123 0.591014193974348 5.15596765827088 4.70469344883222 0.00323458440370041 0.721037399657979 -3.85583372065782 |
| Mir7213 0.587135499459353 6.62502567348421 3.76136425809634 0.00923306934088434 0.721037399657979 -3.9663726155205 |
| Gm16158 0.58702426107396 5.12595947968864 3.85087182975288 0.00831048926610733 0.721037399657979 -3.95381802417201 |
| Gm15994 0.585967343554894 4.88208833279092 3.75407676867547 0.00931305233127093 0.721037399657979 -3.96741664258856 |
| Vmn1r234 0.58389412985728 5.3729864406173 4.08440433922194 0.00635110928598206 0.721037399657979 -3.92329279328826 |
| Gm25677 0.580447071304652 5.60178627255059 3.73174574656802 0.00956297139926872 0.721037399657979 -3.97063669319911 |
| Gm12196 0.580045129933511 7.45531534966224 3.86714908380942 0.00815398338826078 0.721037399657979 -3.95158745082046 |
| Gm20305 0.577017333910488 10.1997076064661 3.80710671487686 0.00874811474827888 0.721037399657979 -3.95989506115741 |
| CLRN1-AS1 0.575035624773418 4.99999981098785 4.55742567254134 0.00377741876381448 0.721037399657979 -3.87024771205707 |
| Gm24218 0.568733316343457 4.99343889712966 3.92142563301634 0.0076553514167257 0.721037399657979 -3.94426375370115 |
| Gm13714 0.565915201985363 6.47911709645877 3.94570583590948 0.00744336418237411 0.721037399657979 -3.94104363591629 |
| Olfr1271 0.559313339116792 5.05330757131383 4.37266374889453 0.00460928643929867 0.721037399657979 -3.88967729688 |
| Gm15778 0.558833085264486 8.18992436136679 3.85085078072223 0.00831069380400599 0.721037399657979 -3.95382091898276 |
| Gm15785 0.556651732669997 12.0779226860834 4.2476394070953 0.00528876726326708 0.721037399657979 -3.90373859497529 |
| Gm20755 0.554759254116792 4.99976651495273 4.10410245281228 0.00621104000257076 0.721037399657979 -3.92085827083754 |
| Mir139 0.554603025977156 8.60974308419346 3.94344034491256 0.00746286457722275 0.721037399657979 -3.94134264236516 |
| 4930529L06Rik 0.554295606539265 6.01128655832718 4.58833069628758 0.00365548536179485 0.721037399657979 -3.86714666861583 |
| Ccr7 0.553816150715669 7.14117249230714 3.9220095256559 0.0076501752630032 0.721037399657979 -3.944185912427 |
| Gm24200 0.55075576479418 5.89080260751819 4.34342626368869 0.00475893680278983 0.721037399657979 -3.89289727755251 |
| Gm16308 0.547548423301294 4.43908490207078 4.60550224812741 0.00358965661168598 0.721037399657979 -3.86544142430326 |
| Gm14417 0.546870245116017 7.96637677149734 4.18175822933615 0.0056915369003514 0.721037399657979 -3.91146282366424 |
| Gm24686 0.546831206145656 5.39245284499691 4.56569265703672 0.00374435904328101 0.721037399657979 -3.86941414024512 |
| Vmn2r-ps71 0.545790608662896 5.47718029289332 3.81764047090086 0.00864048959080714 0.721037399657979 -3.95842170581796 |
| Gm17187 0.541492637906153 5.92204529467646 3.99178721190554 0.00705879040331897 0.721037399657979 -3.93502578786432 |
| Ccdc184 0.534950839973033 6.55192087757222 4.17998037696838 0.00570287213385851 0.721037399657979 -3.9116743682615 |
| Mir465b-1 0.533805771195577 7.80396979633215 4.21852169166825 0.00546270427101994 0.721037399657979 -3.90712506853528 |
| Gm10283 0.533150710137109 5.78259738477446 3.9838261279933 0.00712361569634332 0.721037399657979 -3.93605675840115 |
| Vmn2r-ps80 0.529530895296031 6.55418468122389 4.339133666024 0.00478136411142421 0.721037399657979 -3.89337349024558 |
| Gm5228 0.525518814249513 6.31263623573867 4.50013528201262 0.00401576606407923 0.721037399657979 -3.87610689477273 |
| Gm22741 0.524910648975175 5.59774874126865 4.47373165299213 0.00413127779383461 0.721037399657979 -3.87885650483175 |
| Gm22684 0.522225949726378 6.59269872487399 4.01644705896689 0.006862131104135 0.721037399657979 -3.9318550776455 |
| Gm14537 0.518031259262176 7.15150750858132 4.26596103698631 0.00518250687100164 0.721037399657979 -3.90162971859062 |
| Mir6965 0.516234809494008 6.54618697464634 3.86047948829362 0.00821771155321788 0.721037399657979 -3.95249949992642 |
| Olfr231 0.515318426742983 5.56513609282717 4.59099336860255 0.00364518921539721 0.721037399657979 -3.86688142134007 |
| Gm23586 0.513320790287498 6.05748014060901 4.0780569759398 0.00639699355962193 0.721037399657979 -3.92408176524478 |
| Gm26273 0.511096381260598 7.22956364705963 4.1315062517175 0.00602188700945001 0.721037399657979 -3.91750616986535 |
| Rpl23a-ps4 0.507661105304195 7.33386404865259 4.09982630839422 0.00624115081790507 0.721037399657979 -3.92138498110607 |
| Gm23014 0.507102325646287 8.26549802154575 4.47489576398219 0.00412610690637377 0.721037399657979 -3.87873461340688 |
| Prrg4 0.503049683817504 6.06218731361899 4.07866763346447 0.00639256312694447 0.721037399657979 -3.92400576549584 |
| Gm4405 0.499960413824952 7.83305869284403 4.23045779245411 0.00539063926574783 0.721037399657979 -3.90573165064849 |
| Gm13681 0.49246685944612 7.1958661537189 4.19421315024523 0.00561283060261101 0.721037399657979 -3.90998543406828 |
| Gm5899 0.49205995444542 7.75558082884254 4.02458955636308 0.00679854459694486 0.721037399657979 -3.93081564781898 |
| Gm17234 0.491904532139334 5.19213293000119 4.49186251527225 0.0040515624847303 0.721037399657979 -3.87696502156111 |
| 1700013D24Rik 0.487654069506158 6.17322146577454 3.84044670732071 0.00841248115580663 0.721037399657979 -3.9552550391863 |
| Olfr119 0.487401403839758 5.2729717091752 5.23521138510076 0.00189582020769998 0.721037399657979 -3.81078481057221 |
| Gm17753 0.485804052279693 5.08165516379611 3.9029903308283 0.00782080191615277 0.721037399657979 -3.94673173533458 |
| Fam169b 0.485473999261373 5.49187071036647 3.70982318380512 0.00981557560281854 0.721037399657979 -3.97382863630652 |
| Mir721 0.485130303199002 8.34210041587933 3.81467797056153 0.00867060846465574 0.721037399657979 -3.95883538238359 |
| Gm11763 0.476560569429829 5.65333065820827 3.78682715455513 0.00895953434629345 0.721037399657979 -3.96275080518323 |
| Rpl31-ps5 0.473079282240885 5.78615701667671 3.76887182096726 0.00915146752482805 0.721037399657979 -3.96530054237123 |
| Gm19601 0.468924808808179 8.94395321716014 4.17829489336768 0.00571364178728058 0.721037399657979 -3.91187507408695 |
| Gm9 0.448971939237792 5.22817839878569 3.96539694627983 0.00727624348689654 0.721037399657979 -3.93845723317321 |
| Stmn1-rs1 0.442754713768249 6.54547868125588 4.39001836736455 0.00452296131798567 0.721037399657979 -3.88778528542445 |
| Gm23100 0.440607427973605 6.37808013198119 3.9135579179541 0.00772547978561285 0.721037399657979 -3.94531458177422 |
| Gm24665 0.438191884486202 6.47727303591035 3.85710656377183 0.00825015077599762 0.721037399657979 -3.95296175594724 |
| Gm23221 0.434297745333576 6.46700250773103 3.98351319950286 0.00712617733243672 0.721037399657979 -3.93609735669328 |
| Tert 0.42819174415698 5.19542547179895 3.73438562453335 0.00953304275007833 0.721037399657979 -3.97025438834438 |
| Gm14110 0.427811938263253 5.72219321483068 3.92339063008729 0.00763794741258121 0.721037399657979 -3.94400187078937 |
| Magea5 0.42688072421085 5.44415730523851 3.82468662484421 0.00856931954682035 0.721037399657979 -3.95743995540501 |
| Mrgpra3 0.425545638449049 6.26413247976571 3.92394617471347 0.00763303494290805 0.721037399657979 -3.94392787213063 |
| Gm25301 0.424672934871056 4.49026713887822 3.96129463706726 0.00731071229505881 0.721037399657979 -3.93899422372615 |
| Gm15729 0.423437634458721 5.93897287131538 4.4636713262276 0.00417626993852378 0.721037399657979 -3.87991246458277 |
| Gm24166 0.419578747958157 5.70616696386155 3.87484523039061 0.00808112897543563 0.721037399657979 -3.95053833708152 |
| Gm16330 0.418096705024343 4.64152917129206 3.96472143439869 0.00728190685235071 0.721037399657979 -3.93854559088249 |
| Gm13383 0.417550348660685 6.07397912171367 4.30079935551624 0.00498699332414799 0.721037399657979 -3.89766596207039 |
| Ighv2-1 0.408160235838061 7.06030224192303 4.1219727077185 0.00608695099923408 0.721037399657979 -3.91866777237722 |
| Ssxa1 0.407515181681073 4.80302744247146 3.96956062239079 0.00724144424967116 0.721037399657979 -3.93791319791155 |
| Gm16481 0.396141298815724 4.39634965822047 3.77295913184031 0.00910737823460548 0.721037399657979 -3.96471835996519 |
| Mir7031 0.393774326892446 6.67118281898593 4.21183001468067 0.00550357754031352 0.721037399657979 -3.90790944101807 |
| Gm1401 0.367736455676756 4.76317061201306 3.75382866322948 0.00931578888724868 0.721037399657979 -3.96745224563801 |

**Table S2: TesaNPY\_vs\_FP\_NPY\_downregulated genes**

|  |
| --- |
| logFC "AveExpr" "t" "P.Value" "adj.P.Val" "B" |
| Lnx2 -0.357216861428104 9.09101410016986 -3.82513568028257 0.00856480597675748 0.721037399657979 -3.95737749072347 |
| Gm27342 -0.381317930037916 5.00467947928401 -3.91405032103725 0.0077210698523209 0.721037399657979 -3.94524870886357 |
| Ypel2 -0.399957417328779 9.17659074181802 -3.93360811232074 0.00754815864922318 0.721037399657979 -3.94264378300428 |
| Mir376a -0.403683897477025 5.5808412841423 -3.78644808895517 0.00896353986901868 0.721037399657979 -3.96280442698721 |
| Gm12158 -0.405217151961765 6.58888644629698 -3.85000725651916 0.00831889511803909 0.721037399657979 -3.95393694838052 |
| Gm5460 -0.407199823491197 6.09174141013655 -3.95655186467037 0.00735078956404666 0.721037399657979 -3.93961625744806 |
| Pde7b -0.426416483907681 9.06696766040633 -3.86929244374012 0.00813362043094901 0.721037399657979 -3.9512949187149 |
| Cttnbp2nl -0.427494122398521 10.5734935319708 -3.70398288141004 0.00988411278165222 0.721037399657979 -3.97468417077194 |
| Isca1 -0.447584577693888 8.28012759772709 -4.19008405942577 0.00563878767573157 0.721037399657979 -3.91047433040464 |
| Kitl -0.448142198852548 10.7610714988208 -4.42607395660336 0.00434936005226914 0.721037399657979 -3.88389981868725 |
| Ginm1 -0.454375409738571 10.7335238707554 -3.70358077384634 0.00988885108258877 0.721037399657979 -3.97474315524744 |
| Dtx2 -0.456749343529215 8.11009062766169 -4.1717417089748 0.00575573125823772 0.721037399657979 -3.91265682996484 |
| Tmem245 -0.461973161358123 11.5423015664926 -3.82967862222982 0.00851929203485436 0.721037399657979 -3.95674624839406 |
| Ric3 -0.467364930090329 6.86700867173651 -3.94978207771886 0.00740842046760355 0.721037399657979 -3.94050638954585 |
| Nuak1 -0.467828191519995 8.57515009898832 -4.11598432549341 0.00612822208333792 0.721037399657979 -3.91939990494654 |
| Dnajc4 -0.470630279578507 10.3703722508798 -4.05855423692821 0.00654031031843742 0.721037399657979 -3.92651972902903 |
| Kat2b -0.472244875453487 10.6570687165618 -4.29067750813065 0.00504293114807723 0.721037399657979 -3.89881137835793 |
| Trnp1 -0.473469865162048 5.93480597853947 -3.71539629330195 0.00975066496395955 0.721037399657979 -3.973014279693 |
| Inf2 -0.478426869967182 9.19502656045867 -4.39808379342814 0.00448346177145086 0.721037399657979 -3.88691083568776 |
| Lrrc8c -0.481131903733624 10.7336388885678 -3.89958961811523 0.00785175516389091 0.721037399657979 -3.9471891842109 |
| Pcolce2 -0.485582154480292 8.87764822275315 -4.70143480831917 0.00324559996285951 0.721037399657979 -3.85614290185224 |
| Gm10702 -0.487935492133778 6.61728659407807 -4.58262092419795 0.00367767484475636 0.721037399657979 -3.86771648575011 |
| Mpp7 -0.490686875214877 8.50075551577976 -4.46270787351945 0.00418060756608908 0.721037399657979 -3.88001383303579 |
| Adra1d -0.490769210690061 7.93178454803307 -3.90636532005329 0.00779021709268806 0.721037399657979 -3.94627842153171 |
| Gm19918 -0.491319653620579 5.50116809782827 -4.04191971586319 0.00666538791771285 0.721037399657979 -3.92861569567395 |
| Bag6 -0.495150293314103 9.81800208550798 -3.83422270698278 0.00847403549109829 0.721037399657979 -3.95611610503352 |
| Gga2 -0.499581942686368 7.98073818989781 -3.74847303587455 0.00937507852925988 0.721037399657979 -3.96822172093717 |
| Mmp28 -0.499687947570269 7.76221894668566 -4.00130143494515 0.00698217998432235 0.721037399657979 -3.93379840097617 |
| Olfr995 -0.500608236608285 4.92484668646483 -3.86576035868407 0.00816720723148191 0.721037399657979 -3.95177713514329 |
| Gm13294 -0.500977350236636 8.00377783746735 -4.81140693458936 0.00289614787516439 0.721037399657979 -3.84594299249367 |
| Tprgl -0.503600627256887 10.0165489052352 -4.29830928378968 0.00500068972270751 0.721037399657979 -3.89794727654865 |
| Plpp1 -0.504099952389468 10.6403111166205 -4.05343595545898 0.00657851403162834 0.721037399657979 -3.92716300909092 |
| Zdhhc8 -0.504648464585164 8.65035287080491 -3.89919366634137 0.00785536796995917 0.721037399657979 -3.94724249030784 |
| Ccdc85a -0.508396069766025 7.02085348246288 -3.7200648947663 0.00969665549122531 0.721037399657979 -3.9723336201127 |
| Cobll1 -0.51127791643878 9.51889336194099 -3.77970918273513 0.00903508176460293 0.721037399657979 -3.96375918761068 |
| Gm20335 -0.51177343189088 6.15879561842755 -3.75397321375866 0.00931419441385449 0.721037399657979 -3.96743150221412 |
| Lmtk2 -0.516627721629012 9.25946872634046 -4.38312920379163 0.0045570100337459 0.721037399657979 -3.88853463747737 |
| Ctdspl -0.521746581555291 9.38142567206675 -4.1076269004582 0.00618634440003529 0.721037399657979 -3.9204248918899 |
| Bcl9l -0.52479929680889 9.07884604722842 -3.73412592007925 0.00953598244116596 0.721037399657979 -3.9702919789137 |
| Phf8 -0.528865077750648 9.45240405077698 -4.19604493163051 0.00560135818303394 0.721037399657979 -3.90976882854648 |
| Hspb6 -0.529044142119045 9.17342325823497 -3.95784263936772 0.00733985808212425 0.721037399657979 -3.93944683881816 |
| Fstl3 -0.530522548263369 7.34404379276218 -3.77726390149343 0.00906119809022294 0.721037399657979 -3.96410633058099 |
| LOC100862103 -0.530718487697751 8.95580387466795 -3.94056661850877 0.00748768237759067 0.721037399657979 -3.94172235380905 |
| Nacc2 -0.532655077376239 8.46749917700611 -3.96292831042465 0.00729696392327882 0.721037399657979 -3.93878026066075 |
| Gm9795 -0.533221767629844 7.03910221155396 -4.82458713339004 0.00285719542698874 0.721037399657979 -3.84475231255291 |
| Atpaf2 -0.535021964966284 8.47895987648288 -4.39438664274574 0.00450151984644253 0.721037399657979 -3.88731129845658 |
| Ints7 -0.536363158979189 9.94590608959195 -3.95140480806848 0.00739456047828224 0.721037399657979 -3.94029278206938 |
| Slc39a13 -0.538111227620528 8.40931614834746 -4.08904233838062 0.00631781436451996 0.721037399657979 -3.92271768105428 |
| Fam168a -0.541929559722193 8.92033177737063 -4.29737222088353 0.0050058548714108 0.721037399657979 -3.89805321987574 |
| Extl3 -0.542534816082438 12.0533198034493 -3.78516630675662 0.00897709898780663 0.721037399657979 -3.96298581119147 |
| Zcchc24 -0.543324992420471 10.3328847511515 -4.2737066478218 0.0051383060935333 0.721037399657979 -3.90074323740048 |
| Olfr1034 -0.556699665066093 7.64118809130118 -3.93189438026078 0.00756313607137583 0.721037399657979 -3.94287114383576 |
| Fam124a -0.559636739791116 7.78112320985772 -4.20285630069751 0.00555892848842377 0.721037399657979 -3.90896491520193 |
| Map4 -0.559968714353485 11.6975222327654 -4.30744017887536 0.00495067146114938 0.721037399657979 -3.89691721107242 |
| Sh3glb2 -0.560802022817101 8.204612680071 -4.24497543413871 0.00530441999453553 0.721037399657979 -3.90404663456965 |
| Grina -0.561431110850331 14.4273037920619 -3.90617126215521 0.00779197207016002 0.721037399657979 -3.94630446834099 |
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| Cryab -1.84688464626126 12.2739615467012 -4.19955814647817 0.00557942838209879 0.721037399657979 -3.90935388141387 |
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**Table S3**: **KEGG pathway analysis identified pathways** of differentially expressed genes was related to lipid metabolism (fatty acid degradation, increased arachidonic and linoleic acid metabolism), PPAR signaling pathway, drug metabolism as well as insulin signaling pathway which was down regulatedbetween animals treated with Tesa-NPY and [F7, P34]-NPY of genes.

KEGG Pathways were plotted using Pathview package (Weijun Luo and Cory Brouwer. Pathview: A R/Bioconductor package for pathway-based data integration and visualization. Bioinformatics, 29(14):1830–1831, 2013. doi: 10.1093/bioinformatics/btt285. URL http: //[bioinformatics.oxfordjournals.org/content/29/14/1830.full](http://bioinformatics.oxfordjournals.org/content/29/14/1830.full).)

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| **Pathway** | **p.geomean** | **stat.mean** | **p.val** | **q.val** | **set.size** |
| mmu00982  Drug metabolism - cytochrome P450 | 1.27912591509344e-10 | 7.13 | 1.27912591509345e-10 | 2.08497524160232e-08 | 77 |
| mmu00830  Retinol metabolism | 1.27471164157153e-09 | 6.78 | 1.27471164157153e-09 | 1.0388899878808e-07 | 68 |
| mmu00980  Metabolism of xenobiotics by cytochrome P450 | 1.86482113496999e-08 | 6.12 | 1.86482113496998e-08 | 1.01321948333369e-06 | 67 |
| mmu00983  Drug metabolism - other enzymes | 3.43310887480913e-06 | 4.96 | 3.43310887480912e-06 | 0.0001398992 | 49 |
| mmu04610  Complement and coagulation cascades | 4.35819809895608e-06 | 4.73 | 4.35819809895609e-06 | 0.0001420773 | 76 |
| mmu00591  Linoleic acid metabolism | 1.59835701379735e-05 | 4.57 | 1.59835701379735e-05 | 0.0004342203 | 44 |
| mmu00071  Fatty acid metabolism | 5.24291148098703e-05 | 4.21 | 5.24291148098703e-05 | 0.0010590411 | 47 |
| mmu00140  Steroid hormone biosynthesis | 5.37917464355258e-05 | 4.17 | 5.37917464355258e-05 | 0.0010590411 | 47 |
| mmu00590  Arachidonic acid metabolism | 5.84746619855609e-05 | 4.02 | 5.8474661985561e-05 | 0.0010590411 | 88 |
| mmu03320  PPAR signaling pathway | 9.51381374590019e-05 | 3.90 | 9.51381374590018e-05 | 0.0015507516 | 79 |