

PLA2G7 [1]	Phospholipase A2, Group VII (Platelet-Activating Factor Acetylhydrolase, Plasma)	The protein encoded by this gene is a secreted enzyme that catalyzes the degradation of platelet-activating factor to biologically inactive products. Sourced from GeneCards [21].
AKR1B8 [2]	Aldo-Keto Reductase Family 1, Member B8	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins.
CD68 [3]	Cluster of Differentiation 68	This gene encodes a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. Sourced from GeneCards [21].
SLC7A11 [4]	Solute Carrier Family 7 (Anionic Amino Acid Transporter Light Chain, Xc- System), Member 11	This gene encodes a member of a heteromeric, sodium-independent, anionic amino acid transport system that is highly specific for cysteine and glutamate. Sourced from GeneCards [21].
CYP1B1 [5]	Cytochrome P450, Family 1, Subfamily B, Polypeptide 1	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. Sourced from GeneCards [21].
TREM2 [6]	Triggering Receptor Expressed On Myeloid Cells 2	This gene encodes a membrane protein that forms a receptor signaling complex with the TYRO protein tyrosine kinase binding protein. The encoded protein functions in immune response and may be involved in chronic inflammation by triggering the production of constitutive inflammatory cytokines. Sourced from GeneCards [21].
CD84 [7]	Cluster of Differentiation 84	This gene encodes a membrane glycoprotein that is a member of the signaling lymphocyte activation molecule (SLAM) family. This family forms a subset of the larger CD2 cell-surface receptor Ig superfamily. The encoded protein is a homophilic adhesion molecule that is expressed in numerous immune cells types and is involved in regulating receptor-mediated signaling in those cells. Sourced from GeneCards [21].
LGALS3 [8]	Lectin, Galactoside-Binding, Soluble, 3	This gene encodes a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. This protein plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion and T-cell regulation. Sourced from GeneCards [21].
PTGIR [9]	Prostaglandin I2 (Prostacyclin) Receptor (IP)	The protein encoded by this gene is a member of the G-protein coupled receptor family 1 and has been shown to be a receptor for prostacyclin. Prostacyclin, the major product of cyclooxygenase in macrovascular endothelium, elicits a potent vasodilation and inhibition of platelet aggregation through binding to this receptor. Sourced from GeneCards [21].
MS4A7 [10]	Membrane-Spanning 4-Domains, Subfamily A, Member 7	This gene encodes a member of the membrane-spanning 4A gene family, members of which are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns in hematopoietic cells and nonlymphoid tissues. This family member is associated with mature cellular function in the monocytic lineage, and it may be a component of a receptor complex involved in signal transduction. Sourced from GeneCards [21].
CCL6 [11]	Chemokine (C-C motif) ligand 6	In mice, CCL6 is expressed in cells from neutrophil and macrophage lineages, and can be induced under conditions suitable for myeloid cell differentiation.
GPNNB [12]	Glycoprotein (Transmembrane) Nmb	The protein encoded by this gene is a type I transmembrane glycoprotein which shows homology to the pMEL17 precursor, a melanocyte-specific protein. GPNNB shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. Sourced from GeneCards [21].
CXCL5 [13]	Chemokine (C-X-C Motif) Ligand 5	This gene encodes a protein that is a member of the CXC subfamily of chemokines. Chemokines, which recruit and activate leukocytes, are classified by function (inflammatory or homeostatic) or by structure. This protein is proposed to bind the G-protein coupled receptor chemokine (C-X-C motif) receptor 2 to recruit neutrophils, to promote angiogenesis and to remodel connective tissues. Sourced from GeneCards [21].
MMP12 [14]	Matrix Metalloproteinase 12	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. The enzyme degrades soluble and insoluble elastin. It may play a role in aneurysm formation and studies in mice suggest a role in the development of emphysema. Sourced from GeneCards [21].
SLC39A4 [15]	Solute Carrier Family 39 (Zinc Transporter), Member 4	This gene encodes a member of the zinc/iron-regulated transporter-like protein (ZIP) family. The encoded protein localizes to cell membranes and is required for zinc uptake in the intestine. Sourced from GeneCards [21].
MYO5A [16]	Myosin VA	This gene is one of three myosin V heavy-chain genes, belonging to the myosin gene superfamily. Myosin V is a class of actin-based motor proteins involved in cytoplasmic vesicle transport and anchorage, spindle-pole alignment and mRNA translocation. Sourced from GeneCards [21].
LHFPL2 [17]	Lipoma HMGIC Fusion Partner-Like 2	This gene is a member of the lipoma HMGIC fusion partner (LHFP) gene family, which is a subset of the superfamily of tetraspan transmembrane protein encoding genes. Sourced from GeneCards [21].
CTSK [18]	Cathepsin K	The protein encoded by this gene is a lysosomal cysteine proteinase involved in bone remodeling and resorption. This protein, which is a member of the peptidase C1 protein family, is predominantly expressed in osteoclasts. However, the encoded protein is also expressed in a significant fraction of human breast cancers, where it could contribute to tumor invasiveness. Sourced from GeneCards [21].
ZRANB3 [19]	Zinc Finger, RAN-Binding Domain Containing 3	The protein encoded by this gene is involved in DNA repair, response to DNA damage stimulus, induction of apoptosis, and negative regulation of survival gene product activity.
IGFBP6 [20]	Insulin-Like Growth Factor Binding Protein 6	The protein encoded by this gene is an extracellular protein with preferential affinity for insulin-like growth factor (IGF) II and belongs to a family of binding proteins with at least six members.

SUPPLEMENTAL TABLE 4: Full name and function of differentially expressed genes shared between all smoke exposure systems.