

Table S2. Top functional annotation cluster for the genes correlated with hearing after noise exposure (Enrichment Score: 6.51).

Original Database	Enriched terms	Count	P-value	Fold change	Bonferroni
KEGG_PATHWAY	Olfactory transduction	16	8.8E-14	8.4E0	1.1E-11
GOTERM_MF_FAT	Olfactory receptor activity	18	3.8E-12	5.8E0	1.9E-9
INTERPRO	Olfactory receptor	18	7.4E-12	5.6E0	5.4E-9
GOTERM_BP_FAT	Sensory perception of chemical stimulus	18	9.5e-12	5.5E0	1.7E-8
GOTERM_BP_FAT	Sensory perception of smell	18	9.5E-12	5.5E0	1.7E-8
PIR_SUPERFAMILY	PIRSF003152:G protein-coupled olfactory receptor, class II	13	1.3E-8	5.4E0	2.8E-6
GOTERM_BP_FAT	Sensory perception	24	4.2E-7	2.9E0	7.3E-4
GOTERM_BP_FAT	Neurological system process	36	3.0E-6	2.2E0	5.1E-3
GOTERM_BP_FAT	Cognition	28	6.9E-6	2.4E0	1.2E-2
INTERPRO	GPCR, rhodopsin-like superfamily	27	1.3E-5	2.4E0	9.4E-3
INTERPRO	7TM GPCR, rhodopsin-like	26	5.6E-5	2.2E0	4.0E-2
GOTERM_BP_FAT	<u>G-protein coupled receptor protein signaling pathway</u>	29	2.0E-4	2.0E0	2.9E-1
PIR_SUPERFAMILY	PIRSF800006:rhodopsin-like G protein-coupled receptors	21	2.1E-4	2.3E0	4.7E-2
GOTERM_BP_FAT	<u>cell surface receptor linked signal transduction</u>	42	5.8E-4	1.6E0	6.4E-1
SP_PIR_KEYWORDS	G-protein coupled receptor	24	9.3E-4	2.0E0	2.5E-1
SP_PIR_KEYWORDS	Transducer	26	1.9E-3	1.8E0	4.4E-1
SP_PIR_KEYWORDS	Receptor	47	3.3E-3	1.5E0	6.5E-1