

**Table S1. Top 50 cochlear genes correlated with ABR hearing thresholds after noise exposure.**

Rank	Gene Symbol	Correlation (R)	P value
1	<i>Ceacam16</i>	0.63314363	2.34E-06
2	<i>Nfs1</i>	-0.606689066	7.84E-06
3	<i>Enpp6</i>	0.601075866	1.00E-05
4	<i>Tpr</i>	0.608379381	1.18E-05
5	<i>Mageb3</i>	-0.581123217	2.29E-05
6	<i>Dock11</i>	0.580664094	2.33E-05
7	<i>Rb1</i>	0.580468193	2.35E-05
8	<i>Dnase1</i>	-0.576202531	2.78E-05
9	<i>Zfp711</i>	-0.57432478	3.00E-05
10	<i>Vrk2</i>	-0.574223342	3.01E-05
11	<i>Tyk2</i>	-0.573094643	3.15E-05
12	<i>Anapc10</i>	-0.569789802	3.58E-05
13	<i>Aldh1a7</i>	0.569568567	3.61E-05
14	<i>Nr5a2</i>	0.564941894	4.31E-05
15	<i>E130012A19Rik</i>	-0.56392403	4.48E-05
16	<i>Rad51l3</i>	-0.560016846	5.19E-05
17	<i>Npas3</i>	-0.558473078	5.50E-05
18	<i>2010011120Rik</i>	0.557262619	5.75E-05
19	<i>Sult1d1</i>	0.555832289	6.07E-05
20	<i>Abca6</i>	0.577906441	6.13E-05
21	<i>D14Ertd500e</i>	-0.555050103	6.24E-05
22	<i>Prf1</i>	0.551855207	7.02E-05
23	<i>Tm2d3</i>	0.550464614	7.39E-05
24	<i>Atp7a</i>	0.549495335	7.65E-05

25	<i>Dnase1</i>	-0.548605529	7.90E-05
26	<i>Ptprc</i>	0.547742066	8.15E-05
27	<i>Sirpb1</i>	0.547181265	8.32E-05
28	<i>Ltbp4</i>	-0.544590872	9.13E-05
29	<i>A830006N08Rik</i>	0.544562809	9.13E-05
30	<i>Anapc10</i>	-0.540561991	0.000105271
31	<i>2010011120Rik</i>	0.540231267	0.000106504
32	<i>Steap2</i>	-0.539824993	0.000108037
33	<i>Sirpb1</i>	0.538938237	0.000111453
34	<i>6430550H21Rik</i>	-0.538760647	0.000112148
35	<i>Txn12</i>	-0.560551502	0.000112983
36	<i>Smek1</i>	0.536736012	0.000120364
37	<i>Ptprg</i>	-0.536699938	0.000120515
38	<i>Ly86</i>	0.536049688	0.000123271
39	<i>Samd14</i>	-0.535227006	0.00012684
40	<i>Ccr3</i>	-0.534355832	0.000130721
41	<i>Abl1</i>	-0.533296993	0.000135583
42	<i>Chrna2</i>	0.533049843	0.000136742
43	<i>Prpf38a</i>	0.532729091	0.000138258
44	<i>Cnfn</i>	0.532459001	0.000139547
45	<i>Lyz2</i>	-0.532216621	0.000140713
46	<i>4930522H14Rik</i>	0.531367649	0.000144868
47	<i>Slc6a1</i>	-0.530914922	0.000147128
48	<i>Klhl7</i>	0.529266988	0.000155631
49	<i>Olfr652</i>	0.529229655	0.000155828
50	<i>Abl1</i>	-0.528913993	0.000157509