

Supplemental Table 1. Gene names, genomic coordinates of exons and sequential numbers of deafness genes studied in this project.

Sequential#	location	Gene name
1	chr1:6485018-6485309	ESPN
2	chr1:6488288-6488479	ESPN
3	chr1:6500316-6500500	ESPN
4	chr1:6500688-6500868	ESPN
5	chr1:6500996-6501125	ESPN
6	chr1:6504543-6504742	ESPN
7	chr1:6505726-6505995	ESPN
8	chr1:6508703-6509151	ESPN
9	chr1:6511665-6511808	ESPN
10	chr1:6511895-6512156	ESPN
11	chr1:6517236-6517333	ESPN
12	chr1:6517379-6517476	ESPN
13	chr1:6520061-6520206	ESPN
14	chr1:35226858-35227656	GJB4
15	chr1:35250366-35251176	GJB3
16	chr1:41249768-41250079	KCNQ4
17	chr1:41282934-41283032	KCNQ4
18	chr1:41283838-41283962	KCNQ4
19	chr1:41284179-41284352	KCNQ4
20	chr1:41285021-41285144	KCNQ4
21	chr1:41285549-41285657	KCNQ4
22	chr1:41285837-41285934	KCNQ4
23	chr1:41287982-41288080	KCNQ4
24	chr1:41289771-41289930	KCNQ4
25	chr1:41296758-41296976	KCNQ4
26	chr1:41298688-41298785	KCNQ4
27	chr1:41300641-41300770	KCNQ4
28	chr1:41303339-41303466	KCNQ4
29	chr1:41303985-41304195	KCNQ4
30	chr1:55464862-55465036	BSND
31	chr1:55470694-55470792	BSND
32	chr1:55472672-55472945	BSND
33	chr1:55473889-55474301	BSND
34	chr1:160011185-160012322	KCNJ10
35	chr2:26680910-26681088	OTOF
36	chr2:26682895-26683073	OTOF
37	chr2:26683517-26683615	OTOF
38	chr2:26683722-26683898	OTOF
39	chr2:26684566-26684805	OTOF
40	chr2:26684953-26685049	OTOF
41	chr2:26686347-26686445	OTOF

42	chr2:26686834-26686974	OTOF
43	chr2:26687739-26687897	OTOF
44	chr2:26688542-26688710	OTOF
45	chr2:26688819-26688944	OTOF
46	chr2:26689584-26689719	OTOF
47	chr2:26689969-26690101	OTOF
48	chr2:26690235-26690369	OTOF
49	chr2:26691262-26691359	OTOF
50	chr2:26693463-26693589	OTOF
51	chr2:26693956-26694053	OTOF
52	chr2:26695385-26695517	OTOF
53	chr2:26696002-26696162	OTOF
54	chr2:26696276-26696435	OTOF
55	chr2:26696861-26696978	OTOF
56	chr2:26697383-26697542	OTOF
57	chr2:26698229-26698361	OTOF
58	chr2:26698784-26698906	OTOF
59	chr2:26698998-26699185	OTOF
60	chr2:26699761-26699911	OTOF
61	chr2:26700042-26700156	OTOF
62	chr2:26700281-26700379	OTOF
63	chr2:26700516-26700761	OTOF
64	chr2:26702134-26702252	OTOF
65	chr2:26702343-26702521	OTOF
66	chr2:26703073-26703179	OTOF
67	chr2:26703656-26703877	OTOF
68	chr2:26705276-26705460	OTOF
69	chr2:26706332-26706516	OTOF
70	chr2:26707344-26707501	OTOF
71	chr2:26712073-26712171	OTOF
72	chr2:26712530-26712627	OTOF
73	chr2:26717812-26717941	OTOF
74	chr2:26724602-26724699	OTOF
75	chr2:26725170-26725294	OTOF
76	chr2:26726629-26726726	OTOF
77	chr2:26739288-26739467	OTOF
78	chr2:26741880-26741977	OTOF
79	chr2:26750696-26750794	OTOF
80	chr2:26760566-26760663	OTOF
81	chr2:26781353-26781450	OTOF
82	chr2:71163087-71163202	ATP6V1B1
83	chr2:71170768-71170865	ATP6V1B1
84	chr2:71185178-71185274	ATP6V1B1
85	chr2:71185462-71185559	ATP6V1B1
86	chr2:71186139-71186236	ATP6V1B1

87	chr2:71187071-71187208	ATP6V1B1
88	chr2:71188053-71188152	ATP6V1B1
89	chr2:71188727-71188824	ATP6V1B1
90	chr2:71189909-71190030	ATP6V1B1
91	chr2:71190294-71190442	ATP6V1B1
92	chr2:71190695-71190793	ATP6V1B1
93	chr2:71191570-71191672	ATP6V1B1
94	chr2:71191868-71191995	ATP6V1B1
95	chr2:71192090-71192251	ATP6V1B1
96	chr2:128015174-128015303	ERCC3
97	chr2:128016874-128017024	ERCC3
98	chr2:128018806-128018922	ERCC3
99	chr2:128028914-128029029	ERCC3
100	chr2:128030441-128030539	ERCC3
101	chr2:128036751-128036951	ERCC3
102	chr2:128038025-128038207	ERCC3
103	chr2:128044281-128044593	ERCC3
104	chr2:128046238-128046440	ERCC3
105	chr2:128046915-128047077	ERCC3
106	chr2:128047267-128047400	ERCC3
107	chr2:128047777-128047874	ERCC3
108	chr2:128050188-128050422	ERCC3
109	chr2:128051091-128051294	ERCC3
110	chr2:128051596-128051693	ERCC3
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112	chr2:179318559-179325010	DFNB59
113	chr2:179325077-179325173	DFNB59
114	chr2:179325711-179326001	DFNB59
115	chr2:179326076-179326173	DFNB59
116	chr2:219525713-219526030	BCS1L
117	chr2:219526131-219526268	BCS1L
118	chr2:219526484-219526676	BCS1L
119	chr2:219526904-219527001	BCS1L
120	chr2:219527235-219527402	BCS1L
121	chr2:219527608-219527723	BCS1L
122	chr2:219527859-219528109	BCS1L
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124	chr2:223066097-223066194	PAX3
125	chr2:223066645-223066909	PAX3
126	chr2:223084861-223085073	PAX3
127	chr2:223085943-223086106	PAX3
128	chr2:223096799-223097002	PAX3
129	chr2:223158412-223158509	PAX3
130	chr2:223158826-223159020	PAX3
131	chr2:223160249-223160376	PAX3

132	chr2:223161699-223161932	PAX3
133	chr2:223163244-223163342	PAX3
134	chr3:46742976-46743074	TMIE
135	chr3:46747282-46747397	TMIE
136	chr3:46750618-46750765	TMIE
137	chr3:46751071-46751178	TMIE
138	chr3:181430151-181431102	SOX2
139	chr3:191047441-191047538	CCDC50
140	chr3:191074861-191074958	CCDC50
141	chr3:191075789-191075913	CCDC50
142	chr3:191078855-191078953	CCDC50
143	chr3:191087710-191087825	CCDC50
144	chr3:191092853-191093378	CCDC50
145	chr3:191097950-191098063	CCDC50
146	chr3:191098451-191098548	CCDC50
147	chr3:191098619-191098721	CCDC50
148	chr3:191100527-191100624	CCDC50
149	chr3:191107287-191107391	CCDC50
150	chr3:191109492-191109589	CCDC50
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152	chr4:6288813-6288911	WFS1
153	chr4:6290716-6290858	WFS1
154	chr4:6292926-6293094	WFS1
155	chr4:6293636-6293734	WFS1
156	chr4:6296770-6296916	WFS1
157	chr4:6302386-6304195	WFS1
158	chr4:88532038-88532136	DSPP
159	chr4:88533251-88533348	DSPP
160	chr4:88533476-88534460	DSPP
161	chr4:88534939-88537720	DSPP
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163	chr5:68720398-68720495	MARVELD2
164	chr5:68728356-68728502	MARVELD2
165	chr5:68728751-68728920	MARVELD2
166	chr5:68736255-68736352	MARVELD2
167	chr5:68737361-68737481	MARVELD2
168	chr5:92920732-92921192	NR2F1
169	chr5:92923625-92924150	NR2F1
170	chr5:92929270-92929548	NR2F1
171	chr5:140896420-140896575	DIAPH1
172	chr5:140903705-140903803	DIAPH1
173	chr5:140905607-140905740	DIAPH1
174	chr5:140905866-140906028	DIAPH1
175	chr5:140907142-140907264	DIAPH1
176	chr5:140908022-140908149	DIAPH1

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189	chr5:140957794-140957910	DIAPH1
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196	chr5:140963693-140963792	DIAPH1
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201	chr5:145719113-145720007	POU4F3
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208	chr5:147469059-147469184	SPINK5
209	chr5:147470712-147470809	SPINK5
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216	chr5:147481346-147481471	SPINK5
217	chr5:147484491-147484589	SPINK5
218	chr5:147486602-147486727	SPINK5
219	chr5:147488310-147488408	SPINK5
220	chr5:147491333-147491458	SPINK5
221	chr5:147492416-147492514	SPINK5

222	chr5:147493927-147494052	SPINK5
223	chr5:147495933-147496031	SPINK5
224	chr5:147498002-147498127	SPINK5
225	chr5:147498537-147498635	SPINK5
226	chr5:147499574-147499699	SPINK5
227	chr5:147499858-147499956	SPINK5
228	chr5:147503398-147503523	SPINK5
229	chr5:147504322-147504420	SPINK5
230	chr5:147505084-147505181	SPINK5
231	chr5:147505288-147505413	SPINK5
232	chr5:147506546-147506644	SPINK5
233	chr5:147510824-147510952	SPINK5
234	chr5:147513357-147513455	SPINK5
235	chr5:147516502-147516600	SPINK5
236	chr6:33132631-33132741	COL11A2
237	chr6:33133328-33133593	COL11A2
238	chr6:33133687-33133784	COL11A2
239	chr6:33133918-33134015	COL11A2
240	chr6:33134269-33134366	COL11A2
241	chr6:33134826-33134923	COL11A2
242	chr6:33136462-33136559	COL11A2
243	chr6:33137587-33137684	COL11A2
244	chr6:33138082-33138179	COL11A2
245	chr6:33138870-33138967	COL11A2
246	chr6:33139027-33139124	COL11A2
247	chr6:33139246-33139351	COL11A2
248	chr6:33141258-33141355	COL11A2
249	chr6:33141629-33141726	COL11A2
250	chr6:33144473-33144570	COL11A2
251	chr6:33146829-33146926	COL11A2
252	chr6:33147491-33147589	COL11A2
253	chr6:33148714-33148811	COL11A2
254	chr6:33148870-33148967	COL11A2
255	chr6:33151925-33152101	COL11A2
256	chr6:33152753-33152850	COL11A2
257	chr6:33154332-33154595	COL11A2
258	chr6:33156757-33156965	COL11A2
259	chr6:35773450-35773859	LHFPL5
260	chr6:35782325-35782559	LHFPL5
261	chr6:35787172-35787269	LHFPL5
262	chr6:76527267-76527381	MYO6
263	chr6:76532486-76532583	MYO6
264	chr6:76538246-76538343	MYO6
265	chr6:76540135-76540262	MYO6
266	chr6:76542561-76542664	MYO6

267	chr6:76545598-76545695	MYO6
268	chr6:76550303-76550400	MYO6
269	chr6:76550933-76551095	MYO6
270	chr6:76554606-76554704	MYO6
271	chr6:76558070-76558248	MYO6
272	chr6:76564858-76565000	MYO6
273	chr6:76566816-76566971	MYO6
274	chr6:76568617-76568714	MYO6
275	chr6:76570729-76570826	MYO6
276	chr6:76572315-76572440	MYO6
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278	chr6:76576651-76576822	MYO6
279	chr6:76580336-76580433	MYO6
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286	chr6:76599776-76599982	MYO6
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289	chr6:76604915-76605012	MYO6
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291	chr6:76617324-76617425	MYO6
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293	chr6:76621355-76621452	MYO6
294	chr6:76623782-76623998	MYO6
295	chr6:76624532-76624729	MYO6
296	chr6:121767996-121769142	GJA1
297	chr6:133595888-133595985	EYA4
298	chr6:133703507-133703604	EYA4
299	chr6:133767770-133767892	EYA4
300	chr6:133769236-133769333	EYA4
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305	chr6:133785909-133786006	EYA4
306	chr6:133789706-133789869	EYA4
307	chr6:133802603-133802737	EYA4
308	chr6:133804164-133804261	EYA4
309	chr6:133827241-133827338	EYA4
310	chr6:133833841-133833938	EYA4
311	chr6:133834018-133834176	EYA4

312	chr6:133836461-133836573	EYA4
313	chr6:133844196-133844315	EYA4
314	chr6:133846155-133846253	EYA4
315	chr6:133846294-133846392	EYA4
316	chr6:133849855-133849953	EYA4
317	chr6:134210538-134210985	TCF21
318	chr6:134212848-134212945	TCF21
319	chr7:5567381-5567522	ACTB
320	chr7:5567637-5567816	ACTB
321	chr7:5567914-5568350	ACTB
322	chr7:5568794-5569031	ACTB
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325	chr7:24742368-24742465	DFNA5
326	chr7:24745805-24745995	DFNA5
327	chr7:24747748-24747873	DFNA5
328	chr7:24749845-24750007	DFNA5
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332	chr7:24789185-24789393	DFNA5
333	chr7:102993308-102993405	SLC26A5
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335	chr7:103017235-103017332	SLC26A5
336	chr7:103018048-103018246	SLC26A5
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339	chr7:103020914-103021011	SLC26A5
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347	chr7:103050834-103050996	SLC26A5
348	chr7:103051869-103052033	SLC26A5
349	chr7:103053451-103053559	SLC26A5
350	chr7:103061187-103061324	SLC26A5
351	chr7:103061812-103061961	SLC26A5
352	chr7:107302089-107302250	SLC26A4
353	chr7:107303743-107303880	SLC26A4
354	chr7:107312585-107312693	SLC26A4
355	chr7:107314611-107314793	SLC26A4
356	chr7:107315392-107315554	SLC26A4

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359	chr7:107329500-107329645	SLC26A4
360	chr7:107330571-107330682	SLC26A4
361	chr7:107334839-107334936	SLC26A4
362	chr7:107335066-107335163	SLC26A4
363	chr7:107336380-107336484	SLC26A4
364	chr7:107338474-107338571	SLC26A4
365	chr7:107340526-107340624	SLC26A4
366	chr7:107341546-107341643	SLC26A4
367	chr7:107342274-107342502	SLC26A4
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369	chr7:107350501-107350644	SLC26A4
370	chr7:107352978-107353075	SLC26A4
371	chr7:107355832-107355929	SLC26A4
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375	chr8:102570649-102571040	GRHL2
376	chr8:102582547-102582644	GRHL2
377	chr8:102585898-102586052	GRHL2
378	chr8:102589638-102589747	GRHL2
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382	chr8:102644456-102644593	GRHL2
383	chr8:102649093-102649190	GRHL2
384	chr8:102656358-102656456	GRHL2
385	chr8:102661637-102661734	GRHL2
386	chr8:102676667-102676764	GRHL2
387	chr8:102678819-102678931	GRHL2
388	chr9:21802717-21802814	MTAP
389	chr9:21815427-21815525	MTAP
390	chr9:21816695-21816792	MTAP
391	chr9:21818036-21818201	MTAP
392	chr9:21837909-21838009	MTAP
393	chr9:21854632-21854869	MTAP
394	chr9:21859304-21859424	MTAP
395	chr9:21861947-21862044	MTAP
396	chr9:75263525-75263622	TMC1
397	chr9:75303601-75303698	TMC1
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1243	chrX:9673035-9673154	TBL1X
1244	chrX:9677278-9677375	TBL1X
1245	chrX:9677675-9677800	TBL1X
1246	chrX:9679653-9679816	TBL1X
1247	chrX:9682944-9683043	TBL1X
1248	chrX:9684226-9684323	TBL1X
1249	chrX:70443560-70444409	GJB1
1250	chrX:82763335-82764418	POU3F4
1251	chrX:100601489-100601648	TIMM8A
1252	chrX:100603335-100603432	TIMM8A
1253	chrX:100603523-100603652	TIMM8A