

**Genliste Schwerhörigkeit-Panel (Fett markierte Gene sind in unterschiedlichen Standard-Panels (<25kb) enthalten; siehe Begutachtungsauftrag Panel-Diagnostik)**

	<b>Gensymbol</b>	<b>Genname</b>	<b>Erkrankung(en)</b>	<b>OMIM</b>	<b>Gengröße (kb)</b>
1	<b>ACTG1</b>	<i>Actin Gamma-1</i>	DFNA20/26 Baraitser-Winter-Syndrom 2, AD	<a href="#">102560</a>	1,1
2	<i>CDH23</i>	<i>Cadherin 23</i>	DFNB12 Usher-Syndrom 1D (AR), 1D/F (AR, digenisch)	<a href="#">605516</a>	10,1
3	<i>CHD7</i>	<i>Chromodomain helicase DNA-binding protein 7</i>	CHARGE-Syndrom, AD	<a href="#">608892</a>	9,0
4	<i>COCH</i>	<i>Cochlin</i>	DFNA9	<a href="#">603196</a>	1,7
5	<i>COL11A2</i>	<i>Collagen type XI alpha-2</i>	DFNA13 DFNB53 Stickler-Syndrom Typ III, AD	<a href="#">120290</a>	5,2
6	<i>COL4A5</i>	<i>Collagen type IV alpha-5</i>	Alport-Syndrom, X-linked dominant	<a href="#">303630</a>	5,1
7	<i>DFNA5</i>	<i>DFNA5 gene</i>	DFNA5	<a href="#">608798</a>	1,5
8	<i>DIAPH1</i>	<i>Diaphanous, Drosophila, Homolog of-1</i>	DFNA1	<a href="#">602121</a>	3,8
9	<b>EYA1</b>	<i>Eyes absent-1</i>	Branchio-oto-(renales-)Syndrom 1, AD	<a href="#">601653</a>	1,8
10	<i>FOXI1</i>	<i>Forkhead Box I1</i>	DFNB4 / Erweitertes vestibuläres Aquädukt (EVA), teilweise digenisch s. <i>SLC26A4</i> und <i>KCNJ10</i>	<a href="#">601093</a>	2,7
11	<i>GJB2</i>	<i>Gap-junction protein beta-2</i>	DFNA3A DFNB1A, auch digenisch <i>GJB3</i> und <i>GJB6</i>	<a href="#">121011</a>	0,7
12	<i>GJB3</i>	<i>Gap-junction protein beta-3</i>	DFNA2B DFNB1A, digenisch	<a href="#">603324</a>	0,8
13	<i>GJB6</i>	<i>Gap-junction protein beta-6</i>	DFNA3B DFNB1B DFNB1A, digenisch	<a href="#">604418</a>	0,8
14	<i>GPR98 (ADGRV1)</i>	G Protein-coupled receptor 98	Usher-Syndrom 2C, AR auch digenisch	<a href="#">602851</a>	18,9
15	<b>KCNQ4</b>	<i>Potassium channel, voltage-gated, KQT-like subfamily, member 4</i>	DFNA2A	<a href="#">603537</a>	2,1

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16	MITF	<i>Microphthalmia-associated transcription factor</i>	Waardenburg-Syndrom 2A, auch digenisch	<a href="#">156845</a>	1,3
			Tietz-Albinismus-Schwerhörigkeit-Syndrom, AD		
17	<b>MYH14</b>	<i>Myosin, heavy chain 14, non-muscle</i>	DFNA4A	<a href="#">608568</a>	6,0
18	MYO6	<i>Myosin VI</i>	DFNA22	<a href="#">600970</a>	3,9
			DFNB37		
19	<b>MYO7A</b>	<i>Myosin VIIA</i>	DFNA11	<a href="#">276903</a>	6,6
			DFNB2		
			Usher-Syndrom 1B, AR		
20	<b>MYO15A</b>	<i>Myosin XVA</i>	DFNB3	<a href="#">602666</a>	10,6
21	OTOA	<i>Otoancorin</i>	DFNB22	<a href="#">607038</a>	3,4
22	<b>OTOF</b>	<i>Otoferlin</i>	DFNB9 / Auditorische Neuropathie	<a href="#">603681</a>	6,0
23	<b>PAX3</b>	<i>Paired box gene 3</i>	Craniofacial-deafness-hand-syndrome, AD	<a href="#">606597</a>	1,4
			Waardenburg-Syndrom 1, AD		
			Waardenburg-Syndrom 3, AD/AR		
24	PCDH15	<i>Protocadherin 15</i>	DFNB23	<a href="#">605514</a>	5,9
			Usher-Syndrom 1F (AR), 1D/F (AR, digenisch)		
25	PDZD7	<i>PDZ domain-containing 7</i>	Usher-Syndrom 2C, AR digenisch	<a href="#">612971</a>	3,1
26	POU3F4	<i>POU domain, class 3, transcription factor 4</i>	DFNX2	<a href="#">300039</a>	1,1
27	SIX5	<i>Sine oculis homeobox, drosophila, homolog of 5</i>	Branchio-oto-renales-Syndrom 2, AD	<a href="#">600963</a>	2,2
28	<b>SLC26A4</b>	<i>Solute carrier family 26, member 4</i>	Pendred-Syndrom, AR	<a href="#">605646</a>	2,3
			DFNB4		
29	<b>STRC</b>	<i>Stereocilin</i>	DFNB16	<a href="#">606440</a>	5,3
30	TECTA	<i>Tectorin, alpha</i>	DFNA8/12	<a href="#">602574</a>	6,5
			DFNB21		
31	TMC1	<i>Transmembrane channel-like protein 1</i>	DFNA36	<a href="#">606706</a>	2,3
			DFNB7		

	Gensymbol	Gename	Erkrankung(en)	OMIM	Gengröße (kb)
32	<i>TMIE</i>	<i>Transmembrane inner ear-expressed gene</i>	DFNB6	<a href="#">607237</a>	0,5
33	<i>TMPRSS3</i>	<i>Transmembrane protease, serine 3</i>	DFNB8/10	<a href="#">605511</a>	1,4
34	<b><i>USH1C</i></b>	<i>USH1C gene</i>	DFNB18A	<a href="#">605242</a>	2,7
			Usher-Syndrom 1C, AR		
35	<b><i>USH1G</i></b>	<i>USH1G gene</i>	Usher-Syndrom 1G, AR	<a href="#">607696</a>	1,4
36	<b><i>USH2A</i></b>	<i>USH2A gene</i>	Usher-Syndrom 2A, AR	<a href="#">608400</a>	15,6
37	<b><i>WFS1</i></b>	<i>WFS1 gene</i>	DFNA6/14/38	<a href="#">606201</a>	2,7
			Wolfram-Syndrom, AR		
			<i>Wolfram-like syndrome, AD</i>		

*DFNA*                    ***Deafness autosomal dominant***

*DFNB*                    ***Deafness autosomal recessive***

*DFNX*                    ***Deafness X-chromosomal***