

**Table SI. Genes included in the next-generation sequencing panel**

Number	Gene	Transcript
1	<i>KRT14</i>	NM_000526.4
2	<i>KRT5</i>	NM_000424.3
3	<i>DST</i>	NM_001723.5
4	<i>EXPH5</i>	NM_015065.2
5	<i>PLEC</i>	NM_000445.4 NM_201384.2
6	<i>KLHL24</i>	NM_017644.3
7	<i>TGM5</i>	NM_201631.3
8	<i>DSP</i>	NM_004415.2
9	<i>JUP</i>	NM_002230.2
10	<i>PKP1</i>	NM_001005337.2
11	<i>ITGB4</i>	NM_001005731.1
12	<i>ITGA6</i>	NM_000210.2
13	<i>ITGA3</i>	NM_002204.2
14	<i>COL17A1</i>	NM_000494.3
15	<i>LAMA3</i>	NM_000227.3 NM_198129.2
16	<i>LAMB3</i>	NM_000228.2
17	<i>LAMC2</i>	NM_005562.2
18	<i>COL7A1</i>	NM_000094.3
19	<i>FERMT1</i>	NM_017671.4
20	<i>CD151</i>	NM_004357.4
21	<i>CDSN</i>	NM_001264.4
22	<i>CHST8</i>	NM_001127896.1
23	<i>CSTA</i>	NM_005213.3
24	<i>KRT6A</i>	NM_005554.3
25	<i>KRT6C</i>	NM_173086.4
26	<i>DSC3</i>	NM_024423.2
27	<i>DSG3</i>	NM_001944.2
28	<i>DSG1</i>	NM_001942.2
29	<i>DSG2</i>	NM_001943.3
30	<i>DSG4</i>	NM_177986.3
31	<i>COL23A1</i>	NM_173465.3
32	<i>COL16A1</i>	NM_001856.3
33	<i>ARHGAP31</i>	NM_020754.3
34	<i>CTGF</i>	NM_001901.2
35	<i>DCN</i>	NM_001920.3
36	<i>MMP1</i>	NM_002421.3
37	<i>FLII</i>	NM_002018.3
38	<i>GRIP1</i>	NM_001178074.1
39	<i>ILK</i>	NM_004517.3
40	<i>ITGA2</i>	NM_002203.3
41	<i>ITGA5</i>	NM_002205.2
42	<i>ITGB1</i>	NM_002211.3
43	<i>LAMA5</i>	NM_005560.4
44	<i>LAMB1</i>	NM_002291.2
45	<i>LAMC1</i>	NM_002293.3
46	<i>NID1</i>	NM_002508.2
47	<i>NID2</i>	NM_007361.3
48	<i>SOX18</i>	NM_018419.2
49	<i>SOX7</i>	NM_031439.3