

Supplementary Table S7: List of skin-related genes. The presence of SA1 and SA2 in the region 5kb upstream the TSS, as well as the clustered genes is shown.

Gene Symbol	Chr	Start	End	Presence up to 5kb upstream TSS			Cluster
				SA1 (SA1 +/+)	SA2 (SA1 +/+)	SA2 (SA1 -/-)	
<i>Il1r2</i>	chr1	40141613	40182064				✓
<i>Ccl20</i>	chr1	83113341	83115742				
<i>Lcn2</i>	chr2	32240153	32243317				
<i>Il1a</i>	chr2	129125346	129135708				✓
<i>Il1b</i>	chr2	129190306	129196875				✓
<i>Mmp9</i>	chr2	164766280	164781350				
<i>Lce1f</i>	chr3	92522607	92524272				✓
<i>Lce3c</i>	chr3	92748408	92749652				✓
<i>Tchh</i>	chr3	93246252	93252999				✓
<i>Ctss</i>	chr3	95330708	95360325				✓
<i>Mmp16</i>	chr4	17780040	18046292	✓			
<i>Ccl27a</i>	chr4	41716340	41721120				✓
<i>Gjb3</i>	chr4	127002479	127008088	✓			✓
<i>Gjb5</i>	chr4	127032053	127035425	✓			✓
<i>Mmp23</i>	chr4	155024764	155027493				
<i>Il6</i>	chr5	30339701	30346508	✓			
<i>Cxcl5</i>	chr5	91188325	91190651				✓
<i>Cxcl15</i>	chr5	91223560	91232093	✓			✓
<i>Cxcl1</i>	chr5	91320267	91322141				✓
<i>Cxcl2</i>	chr5	91332897	91334935				✓
<i>Btc</i>	chr5	91786287	91831939				
<i>Cxcl10</i>	chr5	92775664	92777915				✓
<i>Cxcl13</i>	chr5	96385945	96390086				
<i>Ccl24</i>	chr5	136045807	136048913				✓
<i>Tgfa</i>	chr6	86145420	86225151				
<i>Cxcl12</i>	chr6	117118553	117131385	✓		✓	
<i>Scnn1a</i>	chr6	125271358	125294958				
<i>Cxcl17</i>	chr7	26185072	26197905	✓			
<i>Krtdap</i>	chr7	31572924	31576102				
<i>Ctsc</i>	chr7	95426595	95459398	✓			
<i>Itgam</i>	chr7	135206154	135271674				✓
<i>Krtap5-2</i>	chr7	149360437	149361910				✓
<i>Defb1</i>	chr8	22887071	22905657				✓
<i>Cx3cl1</i>	chr8	97295909	97306323				✓
<i>Ccl17</i>	chr8	97334353	97335935				✓
<i>Mmp15</i>	chr8	97876168	97898193	✓			
<i>Cdh3</i>	chr8	109034791	109080808				✓
<i>Mmp13</i>	chr9	7272514	7283333				✓
<i>Mmp12</i>	chr9	7344381	7369499				✓
<i>Mmp3</i>	chr9	7445822	7455972				✓
<i>Mmp10</i>	chr9	7502352	7510238				✓
<i>Mmp8</i>	chr9	7558429	7568486	✓			✓
<i>Mmp7</i>	chr9	7692086	7699585				✓

<i>Cx3cr1</i>	chr9	119957811	119977400	✓	✓		
<i>Ccr1</i>	chr9	123876959	123883525				✓
<i>Ccr2</i>	chr9	124016689	124028296				✓
<i>Itgb2</i>	chr10	76992997	77028453				
<i>Cxcl16</i>	chr11	70267485	70273486				
<i>Ccl2</i>	chr11	81849073	81850955				✓
<i>Ccl11</i>	chr11	81871325	81876457				✓
<i>Ccl12</i>	chr11	81915347	81916902				✓
<i>Ccl8</i>	chr11	81928687	81930301				✓
<i>Ccl5</i>	chr11	83339280	83344020				✓
<i>Ccl9</i>	chr11	83386421	83392138				✓
<i>Ccl6</i>	chr11	83401384	83406589				✓
<i>Ccl3</i>	chr11	83461346	83462857				✓
<i>Ccl4</i>	chr11	83476086	83478185				✓
<i>Krt28</i>	chr11	99226186	99236217	✓		✓	✓
<i>Krt10</i>	chr11	99246568	99250678				✓
<i>Krt12</i>	chr11	99276980	99283573				✓
<i>Krt20</i>	chr11	99289717	99299464				✓
<i>Krtap2-4</i>	chr11	99475331	99476160				✓
<i>Krtap4-2</i>	chr11	99495428	99496398				✓
<i>Krtap4-13</i>	chr11	99670392	99671210				✓
<i>Krtap31-1</i>	chr11	99769234	99770204				✓
<i>Krt13</i>	chr11	99978641	99982880				✓
<i>Krt15</i>	chr11	99993072	99997263				✓
<i>Krt19</i>	chr11	100002124	100009979				✓
<i>Mmp14</i>	chr14	55050441	55060095	✓			
<i>Tgm1</i>	chr14	56318846	56332329				
<i>Gjb2</i>	chr14	57717437	57723539	✓	✓	✓	✓
<i>Gjb6</i>	chr14	57742140	57752448				✓
<i>Krt80</i>	chr15	101177875	101200556				✓
<i>Krt7</i>	chr15	101241474	101260744				✓
<i>Krt83</i>	chr15	101261921	101269235				✓
<i>Krt75</i>	chr15	101393776	101404335				✓
<i>Krt2</i>	chr15	101641120	101648600				✓
<i>Krt79</i>	chr15	101759763	101770755				✓
<i>Krt8</i>	chr15	101827142	101834773				✓
<i>Krt18</i>	chr15	101858647	101862457				✓
<i>Krtap15</i>	chr16	88820460	88829729	✓			✓
<i>Krtap16-7</i>	chr16	89403272	89404019				✓
<i>Krtap6-2</i>	chr16	89419855	89420322				✓
<i>Hbegf</i>	chr18	36664583	36675459				
<i>Fosl1</i>	chr19	5447703	5455945				
<i>Il33</i>	chr19	29999604	30035194				
<i>Il13ra1</i>	chrX	33652105	33711254				
<i>Il2rg</i>	chrX	98456744	98464362				