

**S2 Table. List of 153 commonly downregulated genes between DTG and Telogen**

Probe Set ID	Gene Symbol	q-value	Fold Change	Gene Title
1439794_ ---		0.021398	0.6495 ---	
1444768_ ---		0	0.3062 ---	
1419032_ 2610018G03Rik		0.018363	0.6201	RIKEN cDNA 2610018G03 gene
1455214_ Mitf		0.004878	0.6647	microphthalmia-associated transcription factor
1458467_ 1110032D16Rik		0	0.0061	RIKEN cDNA 1110032D16 gene
1429835_ 2310033E01Rik		0	0.1886	RIKEN cDNA 2310033E01 gene
1429960_ 4930438A08Rik		0	0.3849	RIKEN cDNA 4930438A08 gene
1456210_ 5430407P10Rik		0	0.5192	RIKEN cDNA 5430407P10 gene
1427118_ 5430421N21Rik		0.004681	0.084	RIKEN cDNA 5430421N21 gene
1429896_ 5830408B19Rik		0	0.5752	RIKEN cDNA 5830408B19 gene
1460517_ 9130409J20Rik		0.025005	0.463	RIKEN cDNA 9130409J20 gene
1457967_ A030003K21Rik		0	0.0279	RIKEN cDNA A030003K21 gene
1422292_ A030005K14Rik		0	0.0677	RIKEN cDNA A030005K14 gene
1421680_ A030005L19Rik		0	0.025	RIKEN cDNA A030005L19 gene
1442425_ A030014E15Rik		0	0.0198	RIKEN cDNA A030014E15 gene
1428273_ Abhd13		0.015157	0.6586	abhydrolase domain containing 13
1425102_ Ace2		0	0.5152	angiotensin I converting enzyme (peptidyl-dipeptidase A) 2
1456901_ Adamts20		0	0.3295	a disintegrin-like metallopeptidase with thrombospondin type1 motif, 20
1456878_ A1646023		0	0.3429	expressed sequence A1646023
1425163_ A1661453		0.046628	0.6351	expressed sequence A1661453
1426300_ Alcam		0	0.6584	activated leukocyte cell adhesion molecule
1435154_ AU018091		0	0.1659	expressed sequence AU018091
1420415_ AY026312		0	0.0059	cDNA sequence AY026312
1423753_ Bambi		0	0.2969	BMP and activin membrane-bound inhibitor, homolog (Xenopus laevis)
1441991_ BC039632		0	0.4402	cDNA sequence BC039632
1449873_ Bmp8a		0.010789	0.5476	bone morphogenetic protein 8a
1419225_ Cacna2d3		0	0.4987	calcium channel, voltage-dependent, alpha2/delta subunit 3
1449970_ Capn12		0.013012	0.5295	calpain 12
1425916_ Capn8		0	0.1694	calpain 8
1448752_ Car2		0.027009	0.4018	carbonic anhydrase 2
1421001_ Car6		0.037391	0.2373	carbonic anhydrase 6
1439109_ Ccdc68		0.021398	0.5743	coiled-coil domain containing 68
1451382_ Chac1		0.044013	0.3079	ChaC, cation transport regulator-like 1 (E. coli)
1453009_ Cpm		0	0.3008	carboxypeptidase M

1420686_Cryba4	0	0.0992	crystallin, beta A4
1416776_Crym	0	0.1331	crystallin, mu
1423845_Csdc2	0.042975	0.6213	cold shock domain containing C2, RNA binding
1418989_Ctse	0	0.1791	cathepsin E
1418457_Cxcl14	0.018767	0.648	chemokine (C-X-C motif) ligand 14
1428384_D4Bwg0951e	0.004681	0.6115	DNA segment, Chr 4, Brigham & Women's Genetics 0951 expressed
1431171_D730001G18Rik	0	0.1079	RIKEN cDNA D730001G18 gene
1452070_Dedd2	0.025005	0.6432	death effector domain-containing DNA binding protein 2
1450475_Dlx3	0.016799	0.6573	distal-less homeobox 3
1450698_Dusp2	0	0.439	dual specificity phosphatase 2
1451924_Edn1	0.042975	0.6592	endothelin 1
1419555_Elf5	0.020558	0.4679	E74-like factor 5
1420751_ENSMUSG00000	0	0.0041	predicted gene, ENSMUSG00000068074
1455188_Ephb1	0	0.5028	Eph receptor B1
1449077_Eraf	0.00346	0.2509	erythroid associated factor
1418773_Fads3	0.022375	0.5249	fatty acid desaturase 3
1448470_Fbp1	0	0.2789	fructose biphosphatase 1
1460296_Fgf22	0.020624	0.5266	fibroblast growth factor 22
1435551_Fhod3	0.001872	0.4353	formin homology 2 domain containing 3
1445534_Flnb	0.007179	0.6268	Filamin, beta, mRNA (cDNA clone IMAGE:3488025)
1453102_Flrt3	0.03059	0.6657	fibronectin leucine rich transmembrane protein 3
1419485_Foxc1	0.00346	0.6409	forkhead box C1
1456815_Foxn1	0.004681	0.3623	forkhead box N1
1418207_Fxyd4	0.03059	0.295	FXYD domain-containing ion transport regulator 4
1451424_Gabrp	0	0.1691	gamma-aminobutyric acid (GABA) A receptor, pi
1424296_Gclc	0.016799	0.5938	glutamate-cysteine ligase, catalytic subunit
1439793_Gja3	0	0.1429	gap junction protein, alpha 3
1423271_Gjb2	0.021398	0.6236	gap junction protein, beta 2
1420538_Gprc5d	0	0.0458	G protein-coupled receptor, family C, group 5, member D
1439566_Gprin3	0.03059	0.6105	GPRIN family member 3
1425874_Hoxc13	0.008934	0.5011	homeo box C13
1420640_Jmy	0.020624	0.5515	junction-mediating and regulatory protein
1429913_Kcnk16	0.025005	0.3823	potassium channel, subfamily K, member 16
1418173_Krt25	0.022375	0.5715	keratin 25
1436160_Krt26	0	0.0604	keratin 26
1449378_Krt27	0.00346	0.3423	keratin 27
1430132_Krt28	0.004681	0.5623	keratin 28
1427719_Krt2-ps1 /// Krt82	0	0.0469	keratin complex 2, basic, pseudogene 1 /// keratin 82
1421589_Krt31	0	0.0472	keratin 31

1420728_Krt32	0	0.2079	keratin 32
1449387_Krt33a	0	0.0253	keratin 33A
1427179_Krt33b	0	0.0369	keratin 33B
1418742_Krt34	0	0.0174	keratin 34
1420409_Krt35	0.007179	0.4303	keratin 35
1427751_Krt36	0.004681	0.345	keratin 36
1448457_Krt71	0.025005	0.45	keratin 71
1419840_Krt72	0	0.0796	keratin 72
1436557_Krt73	0.004681	0.59	keratin 73
1427378_Krt75	0.025005	0.4819	keratin 75
1427290_Krt81	0	0.0641	keratin 81
1450536_Krtap12-1	0	0.0563	keratin associated protein 12-1
1428007_Krtap13-1	0	0.025	keratin associated protein 13-1
1419707_Krtap14	0	0.0078	keratin associated protein 14
1419507_Krtap15	0	0.0033	keratin associated protein 15
1425655_Krtap16-1	0	0.0051	keratin associated protein 16-1
1427549_Krtap16-10 /// Kr	0	0.0026	keratin associated protein 16-10
1426203_Krtap16-4	0	0.0366	keratin associated protein 16-4
1425430_Krtap16-5	0	0.0058	keratin associated protein 16-5
1421691_Krtap16-7	0	0.0116	keratin associated protein 16-7
1425237_Krtap16-8	0	0.0024	keratin associated protein 16-8
1427800_Krtap16-9	0	0.1417	Keratin associated protein 16-9 (Krtap16-9), mRNA
1427366_Krtap3-1	0.004681	0.1458	keratin associated protein 3-1
1430625_Krtap3-2	0.02162	0.322	keratin associated protein 3-2
1452957_Krtap3-3	0	0.0747	keratin associated protein 3-3
1430669_Krtap4-7	0	0.0166	keratin associated protein 4-7
1450539_Krtap5-1	0.021398	0.2187	keratin associated protein 5-1
1420452_Krtap5-2	0	0.0268	keratin associated protein 5-2
1430728_Krtap5-5	0	0.0595	keratin associated protein 5-5
1451859_Krtap6-1	0	0.0046	keratin associated protein 6-1
1449919_Krtap6-2	0	0.0146	keratin associated protein 6-2
1427842_Krtap6-3	0	0.0152	keratin associated protein 6-3
1427211_Krtap8-1	0	0.0137	keratin associated protein 8-1
1421689_Krtap8-2	0	0.0059	keratin associated protein 8-2
1450774_Ly6g6d	0	0.0663	lymphocyte antigen 6 complex, locus G6D
1441481_Mfap3l	0.049496	0.6572	microfibrillar-associated protein 3-like
1423265_Minpp1	0.004681	0.5762	multiple inositol polyphosphate histidine phosphatase 1
1422975_Mme	0	0.4674	membrane metallo endopeptidase
1449559_Msx2	0.044013	0.5313	homeobox, msh-like 2

1417520_Nfe2l3	0.00346	0.5737	nuclear factor, erythroid derived 2, like 3
1422790_Nppc	0.018767	0.365	natriuretic peptide precursor type C
1443043_Otop2	0	0.2247	otopetrin 2
1456784_OTTMUSG000001	0	0.5371	predicted gene, OTTMUSG00000015762
1417575_Otub2	0.03059	0.6286	OTU domain, ubiquitin aldehyde binding 2
1419323_Padi1	0.004681	0.2153	peptidyl arginine deiminase, type I
1419767_Padi3	0	0.2537	peptidyl arginine deiminase, type III
1453283_Pgm1	0.004681	0.5432	phosphoglucomutase 1
1435462_Plcxd2	0.020558	0.5141	phosphatidylinositol-specific phospholipase C, X domain containing 2
1447807_Plekhh1	0.016799	0.6692	pleckstrin homology domain containing, familyH (with MyTH4 domain) member1
1420467_Psors1c2	0	0.1408	psoriasis susceptibility 1 candidate 2 (human)
1429262_Rassf6	0.032266	0.6173	Ras association (RalGDS/AF-6) domain family member 6
1425114_Rbbp6	0.011749	0.635	retinoblastoma binding protein 6
1434628_Rhpn2	0	0.294	rhopilin, Rho GTPase binding protein 2
1429321_Rnf149	0.004681	0.6612	ring finger protein 149
1441793_Rnf39	0.026668	0.6272	Ring finger protein 39 (Rnf39), mRNA
1419814_S100a1	0	0.6379	S100 calcium binding protein A1
1421856_S100a3	0	0.1376	S100 calcium binding protein A3
1420764_Scrg1	0.004878	0.538	scrapie responsive gene 1
1420918_Sgk3	0.001872	0.6105	serum/glucocorticoid regulated kinase 3
1424824_Slain1	0	0.4318	SLAIN motif family, member 1
1417750_Slc25a37	0.021398	0.5343	solute carrier family 25, member 37
1448566_Slc40a1	0	0.287	solute carrier family 40 (iron-regulated transporter), member 1
1416464_Slc4a1	0.031133	0.4146	solute carrier family 4 (anion exchanger), member 1
1455442_Slc6a19	0	0.4827	solute carrier family 6 (neurotransmitter transporter), member 19
1417929_Slc7a8	0.012203	0.572	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8
1460616_Slco4c1	0.00346	0.3654	solute carrier organic anion transporter family, member 4C1
1456883_Stox1	0.004681	0.2466	storkhead box 1
1421594_Sytl2	0.013586	0.55	synaptotagmin-like 2
1434425_Tchh	0	0.3016	trichohyalin
1429944_Tchhl1	0	0.0176	trichohyalin-like 1
1437702_Tgm6	0	0.5019	transglutaminase 6
1450958_Tm4sf1	0.004681	0.563	transmembrane 4 superfamily member 1
1454709_Tmem64	0.013012	0.67	transmembrane protein 64
1458871_Tmprss11e	0.004681	0.5132	transmembrane protease, serine 11e
1456623_Tpm1	0.013012	0.6434	tropomyosin 1, alpha
1419615_Trpv6	0.025005	0.5695	transient receptor potential cation channel, subfamily V, member 6
1453269_Unc5b	0.015157	0.6681	unc-5 homolog B (C. elegans)
1448562_Upp1	0	0.2207	uridine phosphorylase 1

1428307_Zdhhc13	0.001872	0.6056	zinc finger, DHHC domain containing 13
1420944_Zfp185	0.02162	0.6231	zinc finger protein 185

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