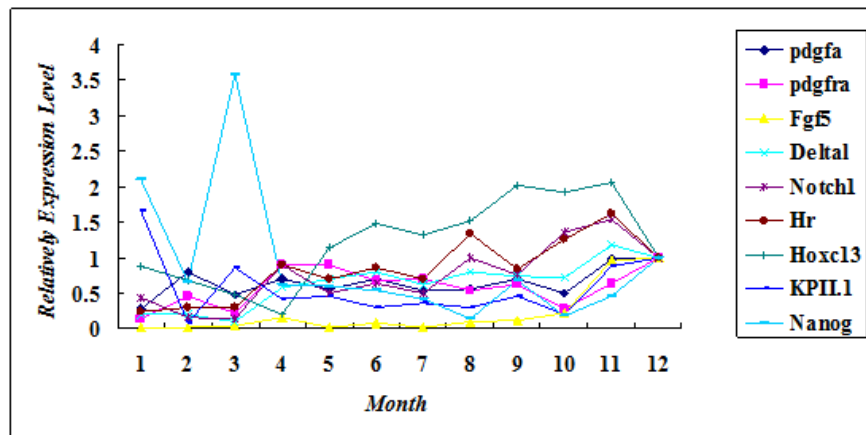
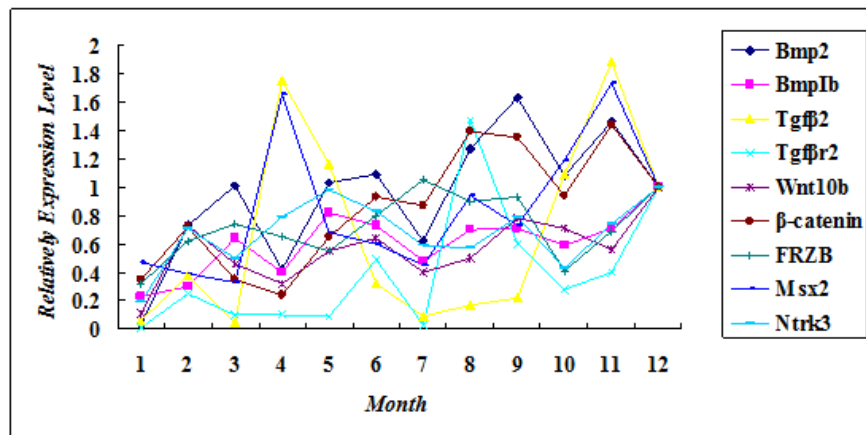




Appendix A The expression level of HFDRGs in cashmere goat skin.

Appendix B The correlation coefficient between the expression level of HFDRGs and hair follicle activity

	Bmp2	Bmp1b	Tgfb2	Tgfb12	Wnt10b	β -cateni	FRZB	Msx2	Ntrk3	Pdgfa	Pdgfra	Fgf5	Delat	Notch1	Hr	Hoxc13	KPIL1	Nanog	Pf%	Sf %
	n																			
Bmp2	1																			
Bmp1b	0.71272	1																		
	3																			
Tgfb2	0.12557	0.22409	1																	
	3	5																		
Tgfb12	0.52337	0.54841	-0.0941	1																
	6	4	4																	
Wnt10b	0.64676	0.66695	0.13033	0.48104	1															
b	9	9	4	3																
β -cateni	0.79910	0.51917	0.05483	0.67778	0.53155	1														
n	8	6	4	4	5															
FRZB	0.43137	0.49747	-0.2210	0.50526	0.42032	0.47697	1													
	7	6	6	4	9	2														
Msx2	0.22312	0.19538	0.87965	0.18864	0.06515	0.27487	-0.0741	1												
	2	8	7		1	7	1													
Ntrk3	0.44180	0.66047	0.43357	0.25164	0.62824	0.25627	0.48126	0.23831	1											
	4	5	1	4	9	4	5	4												
Pdgfa	0.47853	0.49043	0.51797	0.37339	0.69792	0.48814	0.46459	0.46850	0.74189	1										
	8	3	6	9	5	1	5	6	3											
Pdgfra	0.20060	0.53916	0.49898	0.23201	0.38524	0.19055	0.52353	0.38074	0.89482	0.63137	1									
	2			8		7	6	3	6	5										
Fgf5	0.34011	0.54480	0.59549	0.35166	0.47690	0.44735	0.23667	0.61154	0.38093	0.75593	0.39478	1								

	1	9	1	8	5	9	4	1	4	5	8									
Delta	0.58986	0.68534	0.55262	0.51063	0.46344	0.74341	0.39060	0.65770	0.54251	0.63209	0.61772	0.70630	1							
	7	5	2	7	6	8	1	9	6	4	9	9								
Notch1	0.43124	0.38073	0.66613	0.39592	0.25266	0.59336	0.01047	0.86499	0.12260	0.40596	0.23730	0.66855	0.82197	1						
	2	4		7	7	7		7	3	9	6	9	8							
Hr	0.59440	0.50676	0.59020	0.53486	0.31153	0.72527	0.21631	0.79822	0.26339	0.46726	0.34654	0.60333	0.88672	0.94275	1					
	6	3	1	6	8	9	3	7	3	6	8	2	2	7						
Hoxc13	0.69814	0.38972	0.05707	0.34475	0.34888	0.86293	0.15561	0.23228	0.02432	0.17814	-0.0279	0.28323	0.65879	0.61792	0.65895	1				
	5	3			9	1	6	6	7		1	2	7	7	9					
KPIL1	-0.3763	-0.0723	-0.0515	-0.1422	-0.3804	-0.2657	-0.2593	-0.0369	-0.3633	-0.2023	-0.2558	0.30889	-0.1362	-0.0392	-0.2346	-0.1731	1			
	7	8	4	4	6		7	9	5	7	7	8	9	7	7	6				
Nanog	-0.2813	-0.1480	-0.3738	-0.3383	-0.3146	-0.5762	-0.1822	-0.4509	-0.3864	-0.3807	-0.5028	-0.1561	-0.6616	-0.5563	-0.6390	-0.5202	0.60070	1		
	3	5	7	6	3	4		7	6	2	3	1	3		8	5	8			
Pf%	0.29414	0.11229	-0.3796	0.41330	0.30754	0.62149	0.33984	-0.1227	-0.3033	0.00295	-0.2449	0.20924	0.23267	0.27982	0.24956	0.61693	0.06712	-0.1981	1	
	6	7		9	7			1		7	8	3	9	8	2	8	8	2		
Sf%	0.65309	0.36927	0.09534	0.56957	0.53339	0.83949	0.23829	0.37182	-0.0262	0.31810	-0.0571	0.45058	0.61644	0.72891	0.71525	0.83660	-0.1822	-0.4804	0.77013	1
	1		8	3	2	7	2	5	6	2	1	8	1	4	6	7	1	9	5	

Appendix C Information of primers for qPCR

Locus	Primer sequence	Length (bp)	Tm (°C)
BMPRI3	GCAGCAATGAAGCCCAAGA (F)	128	63
(NM001105328)	AAGTGGCGTGGCGAAAAG (R)		
MSX-2	CCAGAACCGAAGAGCCAAG (F)	118	59
(NM001079614)	GGGAGAGTTGATGGGGAAAG (R)		

FGF5 (NM001078011)	AATCTTGGCAGAAAGTGGGTAGAG (F)	112	59
FRZB (NM174059)	AAAAGACGGGGCGGGAGTG (R)	236	53.9
β-catenin (NM001076141)	AAGATGCCCCAACCACTG (F)	100	52.5
BMP2 (NM001099141)	ACGAGTGGCGGTACTTGA (R)	179	57
TGFβRII (NM001159566)	GACCACAAGCAGAGTGCT (F)	110	62.3
TGFβ2 (NM001113252)	TGTCAGGTGAAGTCCTAAA (R)	122	60.8
Hr (NM001102535)	CCTTTATATGTGGACTTCAGTG (F)	147	63
Delta1 (SQLE) (NM001098061)	GCCTTGGGAATCTTAGAGTTA (R)	281	58
Notch1 (XM002691620)	TGATACACTTTGAAGAAGCAGCA (F)	143	63.5
PDGFA (NM001075231)	TGTCTGGAGGAAGAATGATGAGAA (R)	116	61
PDGFRA (NM001192345)	AAAACCAGAGCAGAGGGTGAATG (F)	150	53
NTRK3 (XM002696513)	AAGGTGCAGCAGGGACAGTGTA (R)	144	58.6
Hoxc13 (EU839660)	AGCGTCACTCAGCACTTCCT (F)	372	59
K-II-1 (AY310749)	TCCCACAGCCACCTTCAC (R)	297	59
RORγ	GATGCCCAGGTTGTAAAT (F)	80	63
	GTCAATGGAGCATGGAGT (R)		
	ATGTATGTGGCTGTGGTGG (F)		
	CGCCGCTTCTTCTTGCTG (R)		
	CGGAGGAAGAGGAGCATCG (F)		
	GGCCAGATTAGGAAGTTAGCG (R)		
	CTCGTTGTTAAAGACGGTGC (F)		
	ACGGTCAGAGGGAAGAAGTT (R)		
	AGCCCCACCCCTCCTATCACT (F)		
	TTTGGACCGTCGCCCATACTT (R)		
	CTGGGATAGTCAGGTGTACTGCTCAAA (F)		
	CCGTCTATTTATGTCGCCGATTTGT (R)		
	ACCCGAGAACAACCTCAACAA (F)		
	GTCTTCTGTGGCGTCCTCAAT (R)		
	GGGAGCGGGAGAAGTCAAA (F)		

(AB307696)	CAAATACGGTGGCGTGGAG (R)		
ROR α 2	GCGGCTTAAATGATGTATTTTGTG (F)	179	61
(HM358053)	TGACGAGGACAGGAGTAGGT (R)		
GAPDH	TCCACGGCACAGTCAAGG (F)	112	59
(AJ431207)	TCAGCACCAGCATCACCC (R)		
