

**Up-regulated in CK5/14+**

Gene Category	EASE score	Gene Rank	Gene Name	Gene Symbol	UniGene ID		
Epidermal differentiation & Ectoderm development Biological Process GO:008544 & GO:007398	0.007	329	Keratin 17	KRT17	HS.2785		
		868	Keratin 14 (epidermolysis bullosa simplex, Dowling-Meara, Koebne)	KRT14	HS.355214		
		828	Fatty acid binding protein 5 (psoriasis-associated)	FABP5	HS.408061		
		92	Desmoplakin	DSP	HS.519873		
		664	Procollagen-llysine 1, 2-oxoglutarate 5-dioxygenase (lysine hydroxy	FLOD	HS.75093		
		Protein biosynthesis Biological Process GO:0006412	0.027	276	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	B3GN15	HS.257222
				870	Alanyl-tRNA synthetase	AARS	HS.315137
				778	Ribosomal protein S5	RPS5	HS.378103
				865	Eukaryotic translation initiation factor (eIF) 2A	eIF2A	HS.378808
				333	Mitochondrial ribosomal protein S10	MRPS10	HS.380887
442	Eukaryotic translation initiation factor 3, subunit 6 48kDa			EIF3S6	HS.405590		
934	Ribosomal protein S10			RPS10	HS.406620		
615	Prostaglandin F2 receptor negative regulator			PTGFRN	HS.418093		
433	KIAA0056 protein			KIAA0056	HS.438550		
630	Chromosome 1 open reading frame 33			C1orf33	HS.463797		
131	ElaC homolog 1 (E. coli)			ELAC1	HS.47572		
408	Mitochondrial ribosomal protein L2			MRPL2	HS.55041		
522	Eukaryotic translation elongation factor 1 epsilon 1			EEF1E1	HS.88977		
470	Ribonuclease P/MRP 38kDa subunit			RPP38	HS.94986		
Nuclear division Biological Process GO:000280	0.031			930	Cell division cycle 25A	CDC25A	HS.1634
		791	Cyclin B2	CCNB2	HS.194698		
		633	Cyclin B1	CCNB1	HS.23960		
		646	CHK1 checkpoint homolog (S. pombe)	CHK1	HS.24529		
		939	SKB1 homolog (S. pombe)	SKB1	HS.367654		
		577	RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae)	RAD51	HS.446554		
		285	Kinesin family member 2C	KIF2C	HS.69360		
		158	Cyclin A2	CCNA2	HS.85137		
		Development Biological Process GO:007275	0.033	5	Jerky homolog-like (mouse)	JRKL	HS.105940
				11	Epithelial V-like antigen 1	EVA1	HS.116651
504	zinc finger protein 74 (Cos52)			ZNF74	HS.127476		
94	Neighbor of COX4			NOO4	HS.173162		
197	PAP associated domain containing 1			PAPD1	HS.173946		
710	Dynamitin 1-like			DNM1L	HS.180628		
824	High-mobility group box 3			HMG3	HS.19114		
574	Bridging integrator 1			BIN1	HS.313363		
755	SRY (sex determining region Y)-box 9 (campomelic dysplasia, auto			SOX9	HS.2316		
646	CHK1 checkpoint homolog (S. pombe)			CHK1	HS.24529		
276	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5			B3GN15	HS.257222		
165	UDP glycosyltransferase 8 (UDP-galactose ceramide galactosyltran			UGT8	HS.274293		
329	Keratin 17			KRT17	HS.2785		
390	Alpha-2-HS-glycoprotein			AHSG	HS.324746		
305	Forkhead box C1			FOXC1	HS.349883		
868	Keratin 14 (epidermolysis bullosa simplex, Dowling-Meara, Koebne			KRT14	HS.355214		
828	Fatty acid binding protein 5 (psoriasis-associated)			FABP5	HS.408061		
26	Crystallin, alpha B			CRYAB	HS.408767		
835	kinesin family member 1B			KIF1B	HS.444757		
550	Glutaraldolase 2			GLRX2	HS.458283		
92	Desmoplakin			DSP	HS.519873		
513	Chaperonin containing TCP1, subunit 6B (zeta 2)			CCT6B	HS.73072		
637	T-cell acute lymphocytic leukemia 1			TAL1	HS.73828		
654	Procollagen-llysine 1, 2-oxoglutarate 5-dioxygenase (lysine hydroxy			FLOD	HS.75093		
465	Carboxypeptidase Z			CPZ	HS.78068		
33	Kallikrein 6 (neurosin, zyme)			KLK6	HS.79361		
50	Chromosome 4 open reading frame 14			C4orf14	HS.8715		
Biosynthesis Biological Process GO:000958	0.035			748	Hypothetical protein CL640	CL640	HS.144304
				3	Adenosylmethionine decarboxylase 1	AMD1	HS.159118
				276	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	B3GN15	HS.257222
				165	UDP glycosyltransferase 8 (UDP-galactose ceramide galactosyltran	UGT8	HS.274293
				204	Cytidine monophosphate N-acetylneuraminic acid synthetase	CNAS	HS.311346
				870	Alanyl-tRNA synthetase	AARS	HS.315137
				778	Ribosomal protein S5	RPS5	HS.378103
				865	Eukaryotic translation initiation factor (eIF) 2A	eIF2A	HS.378808
		281	stearoyl-CoA desaturase 4	SCD4	HS.379191		
		333	Mitochondrial ribosomal protein S10	MRPS10	HS.380887		
		442	Eukaryotic translation initiation factor 3, subunit 6 48kDa	EIF3S6	HS.405590		
		934	Ribosomal protein S10	RPS10	HS.406620		
		615	Prostaglandin F2 receptor negative regulator	PTGFRN	HS.418093		
		887	Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, n	MTHFD1	HS.435974		
		433	KIAA0056 protein	KIAA0056	HS.438550		
		417	Uridine-cytidine kinase 2	UCK2	HS.458380		
		630	Chromosome 1 open reading frame 33	C1orf33	HS.463797		
		131	ElaC homolog 1 (E. coli)	ELAC1	HS.47572		
		408	Mitochondrial ribosomal protein L2	MRPL2	HS.55041		
		394	Adenylosuccinate lyase	ADSL	HS.75527		
522	Eukaryotic translation elongation factor 1 epsilon 1	EEF1E1	HS.88977				
470	Ribonuclease P/MRP 38kDa subunit	RPP38	HS.94986				
Histogenesis Biological Process GO:0009888	0.037	461	CD59 antigen p18-20 (antigen identified by monoclonal antibodies	CD59	HS.2785		
		868	Keratin 14 (epidermolysis bullosa simplex, Dowling-Meara, Koebne	KRT14	HS.355214		
		828	Fatty acid binding protein 5 (psoriasis-associated)	FABP5	HS.408061		
		92	Desmoplakin	DSP	HS.519873		
		664	Procollagen-llysine 1, 2-oxoglutarate 5-dioxygenase (lysine hydroxy	FLOD	HS.75093		
		Macromolecule biosynthesis Biological Process GO:000959	0.041	276	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	B3GN15	HS.257222
165	UDP glycosyltransferase 8 (UDP-galactose ceramide galactosyltran			UGT8	HS.274293		
204	Cytidine monophosphate N-acetylneuraminic acid synthetase			CNAS	HS.311346		
870	Alanyl-tRNA synthetase			AARS	HS.315137		
778	Ribosomal protein S5			RPS5	HS.378103		
865	Eukaryotic translation initiation factor (eIF) 2A			eIF2A	HS.378808		
281	stearoyl-CoA desaturase 4			SCD4	HS.379191		
333	Mitochondrial ribosomal protein S10			MRPS10	HS.380887		
442	Eukaryotic translation initiation factor 3, subunit 6 48kDa			EIF3S6	HS.405590		
934	Ribosomal protein S10			RPS10	HS.406620		
615	Prostaglandin F2 receptor negative regulator			PTGFRN	HS.418093		
887	Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, n			MTHFD1	HS.435974		
433	KIAA0056 protein			KIAA0056	HS.438550		
630	Chromosome 1 open reading frame 33			C1orf33	HS.463797		
131	ElaC homolog 1 (E. coli)			ELAC1	HS.47572		
408	Mitochondrial ribosomal protein L2	MRPL2	HS.55041				
394	Adenylosuccinate lyase	ADSL	HS.75527				
522	Eukaryotic translation elongation factor 1 epsilon 1	EEF1E1	HS.88977				
470	Ribonuclease P/MRP 38kDa subunit	RPP38	HS.94986				
M phase Biological Process GO:000279	0.044	470	Ribonuclease P/MRP 38kDa subunit	RPP38	HS.1634		
		791	Cyclin B2	CCNB2	HS.194698		
		633	Cyclin B1	CCNB1	HS.23960		
		646	CHK1 checkpoint homolog (S. pombe)	CHK1	HS.24529		
		939	SKB1 homolog (S. pombe)	SKB1	HS.367654		
		577	RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae)	RAD51	HS.446554		
		285	Kinesin family member 2C	KIF2C	HS.69360		
		158	Cyclin A2	CCNA2	HS.85137		
		Down-regulated in CK5/14+	<0.001	452	Rat guanine nucleotide dissociation stimulator	RALGDS	HS.106185
				463	Transforming growth factor, beta 1 (Camurati-Engelmann disease)	TGFB1	HS.1103
845	Calcium and integrin binding 1 (calmyrin)			CIB1	HS.135471		
443	Fibroblast growth factor receptor 4			FGFR4	HS.165950		
512	Interferon-stimulated transcription factor 3, gamma 48kDa			ISGF3G	HS.1706		
512	Integrin, alpha L			ITGAL	HS.174103		
428	Adenosine A2a receptor			ADORA2A	HS.197029		
438	Regulator of G-protein signalling 5			RGS5	HS.24950		
801	Transducin-like enhancer of split 3 (E(spl) homolog, Drosophila)			TLE3	HS.287362		
396	Regulator of G-protein signalling 16			RGS16	HS.413297		
568	Sprouty homolog 1, antagonist of FGF signaling (Drosophila)			SPRY1	HS.436944		
55	V-erb-b2 erythroblastic leukemia viral oncogene homolog 2			ERBB2	HS.446352		
189	Regulator of G-protein signalling 11			RGS11	HS.65756		
15	Bone morphogenetic protein 4			BMP4	HS.68879		
923	GRB2-associated binding protein 1			GAB1	HS.80720		
679	MAP-kinase activating death domain			MADD	HS.82548		
309	Growth factor receptor-bound protein 7			GRB7	HS.86859		
Enzyme linked receptor protein signaling pathway Biological Process GO:0007167	0.002			463	Transforming growth factor, beta 1 (Camurati-Engelmann disease)	TGFB1	HS.1103
				443	Fibroblast growth factor receptor 4	FGFR4	HS.165950
				568	Sprouty homolog 1, antagonist of FGF signaling (Drosophila)	SPRY1	HS.436944
				55	V-erb-b2 erythroblastic leukemia viral oncogene homolog 2	ERBB2	HS.446352
				15	Bone morphogenetic protein 4	BMP4	HS.68879
				923	GRB2-associated binding protein 1	GAB1	HS.80720
				309	Growth factor receptor-bound protein 7	GRB7	HS.86859
				Transmembrane receptor protein tyrosine kinase signaling pathway Biological Process GO:0007169	0.018	443	Fibroblast growth factor receptor 4
		568	Sprouty homolog 1, antagonist of FGF signaling (Drosophila)			SPRY1	HS.436944
		55	V-erb-b2 erythroblastic leukemia viral oncogene homolog 2			ERBB2	HS.446352
623	GRB2-associated binding protein 1	GAB1	HS.80720				
309	Growth factor receptor-bound protein 7	GRB7	HS.86859				
Regulation of G-protein coupled receptor protein signaling pathway Biological Process GO:0008277	0.029	438	Regulator of G-protein signalling 5	RGS5	HS.24950		
		396	Regulator of G-protein signalling 16	RGS16	HS.413297		
		189	Regulator of G-protein signalling 11	RGS11	HS.65756		

