

Supplement 2: TGFb Signature - significantly regulated genes upon 2h TGFb stimulation of HaCaT cells

Illumina Identifier	HGNC Gene Symbol	Gene Description	Refseq ID	UT 2h	UT+TGFb 2h	LR +/- TGFb 2h	-log10 pVAL LR +/- TGFb 2h
ILMN_1667295	VASN	vasorin (VASN), mRNA.	NM_138440.2	6.64	12.03	5.4	48.93
ILMN_1744381	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 (SERPINE1), mRNA.	NM_000602.1	7.06	12.4	5.34	44.42
ILMN_2115125	CTGF	connective tissue growth factor (CTGF), mRNA.	NM_001901.2	7.04	10.98	3.94	35.07
ILMN_1699829	CTGF	connective tissue growth factor (CTGF), mRNA.	NM_001901.1	6.94	11.08	4.15	34.27
ILMN_2203891	SMAD7	SMAD family member 7 (SMAD7), mRNA.	NM_005904.2	7.27	10.14	2.87	34.27
ILMN_1776936	ANKRD38	ankyrin repeat domain 38 (ANKRD38), mRNA.	NM_181712.3	6.23	9.55	3.32	33.07
ILMN_1768534	BHLHB2	basic helix-loop-helix domain containing, class B, 2 (BHLHB2), mRNA.	NM_003670.1	8.99	12.05	3.06	31.12
ILMN_2376723	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) (CDKN2B), transcript variant 2, mRNA.	NM_078487.2	9.22	12.22	3	30.15
ILMN_2309156	PMEPA1	prostate transmembrane protein, androgen induced 1 (PMEPA1), transcript variant 2, mRNA.	NM_199169.1	9.21	11.7	2.49	29.23
ILMN_1705750	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM2), transcript variant 1, mRNA.	NM_004613.2	6.77	10.16	3.39	28.43
ILMN_1806023	JUN	jun oncogene (JUN), mRNA.	NM_002228.3	8.39	11.87	3.48	28.34
ILMN_1784602	CDKN1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1) (CDKN1A), transcript variant 1, mRNA.	NM_000389.2	10.93	13.1	2.17	27.5
ILMN_1751607	FOSB	FBJ murine osteosarcoma viral oncogene homolog B (FOSB), mRNA.	NM_006732.1	8.28	11.41	3.13	26.96
ILMN_1723198	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) (CDKN2B), transcript variant 1, mRNA.	NM_004936.3	8.05	11.05	3.01	26.96
ILMN_1749414	MGC4294	PREDICTED: hypothetical protein MGC4294 (MGC4294), misc RNA.	XR_017834.1	5.95	7.91	1.97	26.88
ILMN_2086077	JUNB	jun B proto-oncogene (JUNB), mRNA.	NM_002229.2	7.48	9.82	2.34	26.34
ILMN_1682717	IER3	immediate early response 3 (IER3), mRNA.	NM_003897.3	9.57	12.39	2.82	25.45
ILMN_1734276	PMEPA1	prostate transmembrane protein, androgen induced 1 (PMEPA1), transcript variant 2, mRNA.	NM_199169.1	10.34	12.68	2.34	24.96
ILMN_1812297	CYP26B1	cytochrome P450, family 26, subfamily B, polypeptide 1 (CYP26B1), mRNA.	NM_019885.2	9.1	11.14	2.04	24.96
ILMN_1704247	LAMA3	laminin, alpha 3 (LAMA3), transcript variant 2, mRNA.	NM_000227.2	7.26	9.42	2.16	24.4
ILMN_1716608	NGF	nerve growth factor (beta polypeptide) (NGF), mRNA.	NM_002506.2	6.47	8.53	2.06	24.38
ILMN_1720158	ETS2	v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) (ETS2), mRNA.	NM_005239.4	8.97	10.86	1.89	23.97
ILMN_1691376	JAG1	jagged 1 (Alagille syndrome) (JAG1), mRNA.	NM_000214.1	9.45	11.16	1.71	23.66
ILMN_1708934	ADM	adrenomedullin (ADM), mRNA.	NM_001124.1	12.38	10.66	-1.72	23.51
ILMN_1772824	WNT5B	wingless-type MMTV integration site family, member 5B (WNT5B), transcript variant 1, mRNA.	NM_032642.2	6.58	8.58	2	23.27
ILMN_2203896	SMAD7	SMAD family member 7 (SMAD7), mRNA.	NM_005904.2	7.29	9.99	2.7	22.81
ILMN_2111237	MN1	meningioma (disrupted in balanced translocation) 1 (MN1), mRNA.	NM_002430.2	8.34	10.25	1.91	22.77
ILMN_1797875	ALOX5AP	arachidonate 5-lipoxygenase-activating protein (ALOX5AP), mRNA.	NM_001629.2	5.96	8.08	2.12	22.66
ILMN_2184373	IL8	interleukin 8 (IL8), mRNA.	NM_000584.2	6.91	9.27	2.37	22.46
ILMN_1792978	HAS2	hyaluronan synthase 2 (HAS2), mRNA.	NM_005328.1	6.43	8.67	2.24	22.27
ILMN_1775380	SMOX	spermine oxidase (SMOX), transcript variant 4, mRNA.	NM_175842.1	9.55	11.19	1.64	22.26
ILMN_1736834	SKIL	SKI-like oncogene (SKIL), mRNA.	NM_005414.2	6.75	9.56	2.81	22.13
ILMN_1788107	IL11	interleukin 11 (IL11), mRNA.	NM_000641.2	6.58	8.9	2.32	22.09
ILMN_1694084	PSCD1	pleckstrin homology, Sec7 and coiled-coil domains 1 (cytohesin 1) (PSCD1), transcript variant 2, mRNA.	NM_017456.1	9.94	11.53	1.59	21.79
ILMN_2261076	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 (NEDD9), transcript variant 1, mRNA.	NM_006403.2	7.68	10.05	2.38	21.58
ILMN_1689306	TMCT7	transmembrane channel-like 7 (TMCT7), mRNA.	NM_024847.2	6.96	8.94	1.98	21.4
ILMN_2186061	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 (PFKFB3), mRNA.	NM_004566.2	10.2	11.9	1.71	21.28
ILMN_1803593	WNT3	wingless-type MMTV integration site family, member 3 (WNT3), mRNA.	NM_030753.3	8.23	10.41	2.18	20.61
ILMN_1655595	SERPINE2	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2 (SERPINE2), mRNA.	NM_006216.2	12.53	13.86	1.33	20.53
ILMN_1713952	C1orf106	chromosome 1 open reading frame 106 (C1orf106), mRNA.	NM_018265.1	10.96	12.7	1.74	20.37
ILMN_1777513	KCTD11	potassium channel tetramerisation domain containing 11 (KCTD11), mRNA.	NM_001002914.2	7.82	9.81	2	20.18
ILMN_2359345	NET1	neuroepithelial cell transforming gene 1 (NET1), transcript variant 2, mRNA.	NM_005863.3	9.61	11.45	1.84	20.17
ILMN_1730670	FSTL3	follicle-stimulating-like 3 (secreted glycoprotein) (FSTL3), mRNA.	NM_005860.2	8.59	10.51	1.92	20.15
ILMN_1902308	AGENCOURT	13567612 NIH_MGC_184 cDNA clone IMAGE:30326575 5, mRNA sequence		9.53	11.66	2.13	19.95
ILMN_1670130	ARID3A	AT rich interactive domain 3A (BRIGHT-like) (ARID3A), mRNA.	NM_005224.2	7.25	8.85	1.6	19.93
ILMN_1705231	SLCO2A1	solute carrier organic anion transporter family, member 2A1 (SLCO2A1), mRNA.	NM_005630.1	8.36	10.29	1.94	19.68
ILMN_2367258	SMOX	spermine oxidase (SMOX), transcript variant 2, mRNA.	NM_175840.1	8.14	9.83	1.69	19.51
ILMN_1812968	SOX18	SRY (sex determining region Y)-box 18 (SOX18), mRNA.	NM_018419.2	6.53	9.38	2.85	19.47
ILMN_1815023	PIM1	pim-1 oncogene (PIM1), mRNA.	NM_002648.2	8.84	10.32	1.49	19.21
ILMN_1692754	TMEM49	transmembrane protein 49 (TMEM49), mRNA.	NM_030938.2	10.79	12.44	1.66	19.14
ILMN_1781374	TUFT1	tuftelin 1 (TUFT1), mRNA.	NM_020127.1	10.9	12.4	1.5	19.11
ILMN_1895660		K-EST0058554 S13KMS5s1 cDNA clone S13KMS5s1-7-G08 5, mRNA sequence		5.62	7.68	2.06	18.91
ILMN_2054297	PTGS2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) (PTGS2), mRNA.	NM_000963.1	8.27	10.31	2.04	18.89
ILMN_1767068	SMAD6	SMAD family member 6 (SMAD6), mRNA.	NM_005585.3	9.06	10.63	1.58	18.82
ILMN_1702487	SGK	serum/glucocorticoid induced kinase (SGK), mRNA.	NM_005627.2	8.97	10.7	1.72	18.75
ILMN_1679754	ADRA1B	adrenergic, alpha-1B-, receptor (ADRA1B), mRNA.	NM_000679.3	6.43	8.63	2.2	18.63
ILMN_1752810	LARP6	La ribonucleoprotein domain family, member 6 (LARP6), transcript variant 1, mRNA.	NM_018357.2	8.73	10.33	1.6	18.63
ILMN_1743199	EGR2	early growth response 2 (Krox-20 homolog, Drosophila) (EGR2), mRNA.	NM_000399.2	6.43	8.37	1.93	18.59
ILMN_1706519	LAMC2	laminin, gamma 2 (LAMC2), transcript variant 2, mRNA.	NM_018891.1	7.74	10.22	2.48	18.53
ILMN_1735052	ULK1	unc-51-like kinase 1 (C. elegans) (ULK1), mRNA.	NM_003565.1	11.43	12.85	1.42	18.35
ILMN_1713751	ADAM19	ADAM metalloproteinase domain 19 (meltrin beta) (ADAM19), transcript variant 2, mRNA.	NM_033274.2	9.54	11.49	1.96	18.3
ILMN_1805665	FLRT3	fibronectin leucine rich transmembrane protein 3 (FLRT3), transcript variant 2, mRNA.	NM_198391.1	9.18	10.69	1.52	18.27
ILMN_1655740	SNAI2	snail homolog 2 (Drosophila) (SNAI2), mRNA.	NM_003068.3	8.99	10.63	1.64	18.22
ILMN_1704418	FOXO1	forkhead box O1 (FOXO1), mRNA.	NM_004472.2	9.55	11.14	1.59	18.22
ILMN_2388800	PPAP2B	phosphatidic acid phosphatase type 2B (PPAP2B), transcript variant 1, mRNA.	NM_003713.3	8.09	9.57	1.48	18.22
ILMN_1659206	RARA	retinoic acid receptor, alpha (RARA), transcript variant 1, mRNA.	NM_000964.2	10.33	11.6	1.27	18.22
ILMN_1807331	BLD	BH3-like motif containing, cell death inducer (BLD), mRNA.	NM_001001786.1	6.54	8.33	1.79	18.19
ILMN_1672102	PTPRB	protein tyrosine phosphatase, receptor type, B (PTPRB), mRNA.	NM_002837.2	7.35	8.98	1.63	18.19
ILMN_1741847	MMP10	matrix metalloproteinase 10 (stromelysin 2) (MMP10), mRNA.	NM_002425.1	7.94	9.75	1.81	18.18
ILMN_1705144	ULK1	unc-51-like kinase 1 (C. elegans) (ULK1), mRNA.	NM_003565.1	11.34	12.86	1.51	18.1
ILMN_1813704	KIAA1199	KIAA1199 (KIAA1199), mRNA.	NM_018689.1	7.23	9.2	1.97	18.06
ILMN_1730794	SERTAD4	SERTA domain containing 4 (SERTAD4), mRNA.	NM_019605.2	8.54	10.47	1.93	17.97
ILMN_1753439	RPTN	PREDICTED: repetin (RPTN), mRNA.	XM_937200.2	6.45	8.31	1.86	17.86
ILMN_1696956	ARID3B	AT rich interactive domain 3B (BRIGHT-like) (ARID3B), mRNA.	NM_006465.2	9.12	10.55	1.43	17.67
ILMN_2405305	ARNTL	aryl hydrocarbon receptor nuclear translocator-like (ARNTL), transcript variant 2, mRNA.	NM_001030272.1	7.67	9.35	1.69	17.5
ILMN_2044645	CGB1	chorionic gonadotropin, beta polypeptide 1 (CGB1), mRNA.	NM_033377.1	7.13	8.85	1.72	17.47
ILMN_1732197	MN1	meningioma (disrupted in balanced translocation) 1 (MN1), mRNA.	NM_002430.2	7.47	8.94	1.47	17.47
ILMN_1691410	BAMBI	BMP and activin membrane-bound inhibitor homolog (Xenopus laevis) (BAMBI), mRNA.	NM_012342.2	7.61	10.26	2.65	17.37
ILMN_1685663	CYP24A1	cytochrome P450, family 24, subfamily A, polypeptide 1 (CYP24A1), nuclear gene encoding mitochondrial protein, mRNA.	NM_000782.3	5.83	7.18	1.35	17.21
ILMN_2189027	LIPG	lipase, endothelial (LIPG), mRNA.	NM_006033.2	11.51	12.98	1.47	17.12
ILMN_2115005	FGD2	FYVE, RhoGEF and PH domain containing 2 (FGD2), mRNA.	NM_173558.2	6.54	8.42	1.88	17.02
ILMN_1698666	CST6	cystatin E/M (CST6), mRNA.	NM_001323.2	6.38	7.92	1.53	17.02
ILMN_1758719	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 (NEDD9), transcript variant 1, mRNA.	NM_006403.2	6.61	8.48	1.88	17.01
ILMN_2267535	NET1	neuroepithelial cell transforming gene 1 (NET1), transcript variant 2, mRNA.	NM_005863.3	8.95	10.81	1.86	16.78
ILMN_1718387	LOR	loricrin (LOR), mRNA.	NM_000427.1	5.8	7.46	1.66	16.76
ILMN_2328094	DACT1	dapper, antagonist of beta-catenin, homolog 1 (Xenopus laevis) (DACT1), transcript variant 1, mRNA.	NM_016655.1	6.12	7.79	1.67	16.74
ILMN_1712475	HS3ST2	heparan sulfate (glucosamine) 3-O-sulfotransferase 2 (HS3ST2), mRNA.	NM_006043.1	10.11	11.75	1.64	16.72
ILMN_2184612	C3orf52	chromosome 3 open reading frame 52 (C3orf52), mRNA.	NM_024616.1	8.05	9.72	1.67	16.69
ILMN_1751465	BNC1	basonuclin 1 (BNC1), mRNA.	NM_001717.2	8.47	10.29	1.82	16.56
ILMN_1693242	ZNF342	zinc finger protein 342 (ZNF342), mRNA.	NM_145288.1	9.27	7.8	-1.47	16.48
ILMN_1788213	FRAT2	frequently rearranged in advanced T-cell lymphomas 2 (FRAT2), mRNA.	NM_012083.2	10.44	9.36	-1.07	16.44
ILMN_1706015	FAM43A	family with sequence similarity 43, member A (FAM43A), mRNA.	NM_153690.4	8.03	9.65	1.62	16.11
ILMN_1746502	LOC399978	PREDICTED: hypothetical LOC399978 (LOC399978), mRNA.	XM_944623.2	6.39	8.55	2.16	15.73
ILMN_1782050	CEBPD	CCAAT/enhancer binding protein (C/EBP), delta (CEBPD), mRNA.	NM_005195.3	9.23	8.02	-1.21	15.41
ILMN_1666222	PHACTR3	phosphatase and actin regulator 3 (PHACTR3), transcript variant 3, mRNA.	NM_183246.1	5.8	7.35	1.56	15.39
ILMN_1685339	TPM1	tropomyosin 1 (alpha) (TPM1), transcript variant 6, mRNA.	NM_001018008.1	7.04	8.56	1.53	15.37
ILMN_2082585	SNAI2	snail homolog 2 (Drosophila) (SNAI2), mRNA.	NM_003068.3	10.37	12	1.63	15.32
ILMN_1663092	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2 (CITED2), mRNA.	NM_006079.3	8.91	7.41	-1.5	15.25
ILMN_2298301	BNC1	basonuclin 1 (BNC1), mRNA.	NM_001717.2	8.52	10.21	1.69	15.17
ILMN_1653292	PFKFB4	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4 (PFKFB4), mRNA.	NM_004567.2	9.72	10.97	1.24	15.17
ILMN_2163790	CGB5	chorionic gonadotropin, beta polypeptide 5 (CGB5), mRNA.	NM_033043.1	6.41	8.09	1.68	15.09
ILMN_1679391	MAMDC2	MAM domain containing 2 (MAMDC2), mRNA.	NM_153267.3	8.36	9.77	1.41	15.09

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ILMN_1657823	PMEPA1	prostate transmembrane protein, androgen induced 1 (PMEPA1), transcript variant 1, mRNA.	NM_020182.3	6.45	8.1	1.65	15.02
ILMN_1692177	TSC22D1	TSC22 domain family, member 1 (TSC22D1), transcript variant 2, mRNA.	NM_006022.2	10.33	11.65	1.32	14.99
ILMN_2374865	ATF3	activating transcription factor 3 (ATF3), transcript variant 4, mRNA.	NM_001040619.1	7.5	9.63	2.13	14.89
ILMN_2406035	LAMA3	laminin, alpha 3 (LAMA3), transcript variant 1, mRNA.	NM_198129.1	11.48	12.91	1.44	14.86
ILMN_2278152	TPM1	tropomyosin 1 (alpha) (TPM1), transcript variant 6, mRNA.	NM_001018008.1	7.12	8.71	1.59	14.83
ILMN_1656057	PLAU	plasminogen activator, urokinase (PLAU), mRNA.	NM_002658.2	10.35	11.72	1.38	14.81
ILMN_1684554	COL16A1	collagen, type XVI, alpha 1 (COL16A1), mRNA.	NM_001856.3	8.48	9.71	1.23	14.81
ILMN_1698020	DLC1	deleted in liver cancer 1 (DLC1), transcript variant 3, mRNA.	NM_024767.2	7.3	9.04	1.74	14.8
ILMN_1697733	CST6	PREDICTED: cystatin E/M (CST6), mRNA.	XM_001129442.1	6.27	7.84	1.57	14.79
ILMN_1721626	ARID5B	AT rich interactive domain 5B (MRF1-like) (ARID5B), mRNA.	NM_032199.1	10.27	8.56	-1.71	14.75
ILMN_1720865	OSBP1	oxysterol binding protein-like 7 (OSBP1), transcript variant 1, mRNA.	NM_145798.2	10.21	11.57	1.36	14.68
ILMN_1675448	ZFP36L1	zinc finger protein 36, C3H type-like 1 (ZFP36L1), mRNA.	NM_004926.2	11	12.29	1.29	14.65
ILMN_1718712	C20orf177	chromosome 20 open reading frame 177 (C20orf177), mRNA.	NM_022106.1	11.04	9.86	-1.19	14.47
ILMN_1677466	DUSP6	dual specificity phosphatase 6 (DUSP6), transcript variant 1, mRNA.	NM_001946.2	6.98	8.86	1.88	14.42
ILMN_2121408	HBEFG	heparin-binding EGF-like growth factor (HBEFG), mRNA.	NM_001945.1	8.38	9.84	1.46	14.42
ILMN_1651347	SERTAD2	SERTA domain containing 2 (SERTAD2), mRNA.	NM_014755.1	10.68	9.6	-1.08	14.42
ILMN_1688480	CCND1	cyclin D1 (CCND1), mRNA.	NM_053056.2	13.16	14.28	1.12	14.41
ILMN_1701424	LAMC2	laminin, gamma 2 (LAMC2), transcript variant 1, mRNA.	NM_005562.1	11.44	12.63	1.19	14.4
ILMN_1864372		BX097797 Soares_pregnant_uterus_NbHPU cDNA clone IMAGP998N171164, mRNA sequence		7.9	9.47	1.57	14.24
ILMN_1695290	FERMT2	fermitin family homolog 2 (Drosophila) (FERMT2), mRNA.	NM_006832.1	8.52	9.84	1.33	14.23
ILMN_1874689		primary neuroblastoma cDNA, clone:Nbla10527, full insert sequence		10.09	11.5	1.41	14.19
ILMN_2052208	GADD45A	growth arrest and DNA-damage-inducible, alpha (GADD45A), mRNA.	NM_001924.2	10.44	11.57	1.13	14.19
ILMN_1737611	VAMP1	vesicle-associated membrane protein 1 (synaptobrevin 1) (VAMP1), transcript variant 2, mRNA.	NM_199245.1	9.58	8.44	-1.14	14.16
ILMN_1677511	PTGS2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) (PTGS2), mRNA.	NM_000963.1	6.49	7.91	1.43	14.13
ILMN_1688892	LAMA3	laminin, alpha 3 (LAMA3), transcript variant 1, mRNA.	NM_198129.1	10.16	11.61	1.45	14.09
ILMN_1743619	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 (NEDD9), transcript variant 2, mRNA.	NM_182966.2	6.51	7.85	1.34	14.07
ILMN_1724040	ANKRD57	ankyrin repeat domain 57 (ANKRD57), mRNA.	NM_023016.3	11.22	12.32	1.1	14.04
ILMN_1658483	IL1A	interleukin 1, alpha (IL1A), mRNA.	NM_000575.3	7.5	9.04	1.54	14.02
ILMN_1664016	ARHGEF18	rho/rac guanine nucleotide exchange factor (GEF) 18 (ARHGEF18), mRNA.	NM_015318.2	11.52	12.5	0.99	14.01
ILMN_1661197	CLCF1	cardiotrophin-like cytokine factor 1 (CLCF1), mRNA.	NM_013246.2	8.05	9.5	1.45	13.92
ILMN_1788203	HEY1	hair/enhancer-of-split related with YRPW motif 1 (HEY1), transcript variant 2, mRNA.	NM_001040708.1	7.81	9.14	1.33	13.91
ILMN_1758311	NET1	neuroepithelial cell transforming gene 1 (NET1), transcript variant 1, mRNA.	NM_001047160.1	12.51	13.75	1.23	13.89
ILMN_1715684	LAMB3	laminin, beta 3 (LAMB3), transcript variant 1, mRNA.	NM_000228.2	12.16	13.25	1.09	13.8
ILMN_1671005	IRF2BP2	interferon regulatory factor 2 binding protein 2 (IRF2BP2), transcript variant 1, mRNA.	NM_182972.2	8.16	9.58	1.42	13.73
ILMN_2151281	GABARAPL1	GABA(A) receptor-associated protein like 1 (GABARAPL1), mRNA.	NM_031412.2	8.54	10.17	1.64	13.71
ILMN_2188722	GLS	glutaminase (GLS), mRNA.	NM_014905.2	9.51	10.65	1.14	13.71
ILMN_1686116	THBS1	thrombospondin 1 (THBS1), mRNA.	NM_003246.2	11.77	13.66	1.89	13.57
ILMN_1767322	EDAR	ectodysplasin A receptor (EDAR), mRNA.	NM_022336.2	7.8	9.33	1.53	13.57
ILMN_1722718	BMP2	bone morphogenetic protein 2 (BMP2), mRNA.	NM_001200.2	7.93	9.13	1.2	13.54
ILMN_2315979	LBH	limb bud and heart development homolog (mouse) (LBH), mRNA.	NM_030915.1	7.6	9.08	1.48	13.25
ILMN_1732609	KIAA1539	KIAA1539 (KIAA1539), mRNA.	NM_025182.2	7.02	8.65	1.63	13.21
ILMN_2371458	CXCR7	chemokine (C-X-C motif) receptor 7 (CXCR7), transcript variant 1, mRNA.	NM_001047841.1	9.33	10.71	1.37	13.21
ILMN_1712896	FST	folistatin (FST), transcript variant FST317, mRNA.	NM_006350.2	9.31	10.89	1.57	13.16
ILMN_1805192	KIAA1754	KIAA1754 (KIAA1754), mRNA.	NM_033397.2	10.03	11.13	1.1	13.07
ILMN_1801068	DACT1	dapper, antagonist of beta-catenin, homolog 1 (Xenopus laevis) (DACT1), mRNA.	NM_016651.4	5.93	7.46	1.52	13.06
ILMN_1718607	TSPAN4	tetraspanin 4 (TSPAN4), transcript variant 3, mRNA.	NM_001025235.1	8.79	10.12	1.33	12.73
ILMN_1687978	PHLDA1	pleckstrin homology-like domain, family A, member 1 (PHLDA1), mRNA.	NM_007350.3	11.08	12.83	1.75	12.67
ILMN_1765578	TIPARP	TCDD-inducible poly(ADP-ribose) polymerase (TIPARP), mRNA.	NM_015508.3	10.34	11.56	1.22	12.64
ILMN_1680018	RIPK4	receptor-interacting serine-threonine kinase 4 (RIPK4), mRNA.	NM_020639.2	9.06	7.9	-1.16	12.57
ILMN_1680139	MAFF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian) (MAFF), transcript variant 1, mRNA.	NM_012323.2	6.57	7.7	1.14	12.52
ILMN_1794501	HAS3	hyaluronan synthase 3 (HAS3), transcript variant 1, mRNA.	NM_005329.2	8.46	9.95	1.49	12.32
ILMN_1677636	COMP	cartilage oligomeric matrix protein (COMP), mRNA.	NM_000095.2	5.75	7.12	1.36	12.32
ILMN_1759598	DLX5	distal-less homeobox 5 (DLX5), mRNA.	NM_005221.5	7.38	8.49	1.11	12.32
ILMN_1733937	MMD	monocyte to macrophage differentiation-associated (MMD), mRNA.	NM_012329.2	7.35	8.79	1.44	12.31
ILMN_1712545	S100A3	S100 calcium binding protein A3 (S100A3), mRNA.	NM_002960.1	10.1	11.18	1.09	12.28
ILMN_1811468	IRX3	iroquois homeobox 3 (IRX3), mRNA.	NM_024336.1	13.02	12.12	-0.9	12.26
ILMN_1743456	ZCCHC14	zinc finger, CCHC domain containing 14 (ZCCHC14), mRNA.	NM_015144.2	9.86	10.94	1.08	12.14
ILMN_1665792	ITGA2	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor) (ITGA2), mRNA.	NM_002203.3	9.92	11.38	1.47	12.11
ILMN_1849033		Homo sapiens, clone IMAGE:5403381, mRNA		6.59	7.78	1.19	12.03
ILMN_1743373	DLL1	delta-like 1 (Drosophila) (DLL1), mRNA.	NM_005618.3	8.88	7.77	-1.11	11.97
ILMN_1794017	SERTAD1	SERTA domain containing 1 (SERTAD1), mRNA.	NM_013376.3	9.59	10.54	0.95	11.91
ILMN_1798360	CXCR7	chemokine (C-X-C motif) receptor 7 (CXCR7), mRNA.	NM_020311.2	11.47	12.65	1.18	11.87
ILMN_1658094	ZNF365	zinc finger protein 365 (ZNF365), transcript variant A, mRNA.	NM_014951.2	9.62	10.81	1.19	11.86
ILMN_1670926	GALNAC45-6ST	B cell RAG associated protein (GALNAC45-6ST), mRNA.	NM_015892.2	10.23	11.32	1.09	11.85
ILMN_1718977	GADD45B	growth arrest and DNA-damage-inducible, beta (GADD45B), mRNA.	NM_005675.2	7.01	8.32	1.31	11.84
ILMN_1810000	RDH16	retinol dehydrogenase 16 (all-trans) (RDH16), mRNA.	NM_003708.3	6.26	7.85	1.59	11.78
ILMN_1722834	RG512	regulator of G-protein signaling 12 (RG512), transcript variant 2, mRNA.	NM_002926.3	9.73	10.76	1.02	11.78
ILMN_1673113	F2RL1	coagulation factor II (thrombin) receptor-like 1 (F2RL1), mRNA.	NM_005242.3	9.61	10.58	0.98	11.77
ILMN_2318638	TGIF1	TGFB-induced factor homeobox 1 (TGIF1), transcript variant 1, mRNA.	NM_170695.2	9.48	10.54	1.06	11.72
ILMN_2199389	VIPR1	vasoactive intestinal peptide receptor 1 (VIPR1), mRNA.	NM_004624.2	7.86	9.1	1.24	11.69
ILMN_1717877	IVNS1ABP	influenza virus NS1A binding protein (IVNS1ABP), mRNA.	NM_006469.4	9.17	10.95	1.78	11.64
ILMN_1796316	MMP9	matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) (MMP9), mRNA.	NM_004994.2	6.21	7.73	1.52	11.59
ILMN_1682034	HEY2	hair/enhancer-of-split related with YRPW motif 2 (HEY2), mRNA.	NM_012259.1	6.15	7.21	1.07	11.58
ILMN_1745623	EFCAB4A	EF-hand calcium binding domain 4A (EFCAB4A), mRNA.	NM_173584.3	8.69	9.66	0.97	11.57
ILMN_1805466	SOX9	SRY (sex determining region Y)-box 9 (campomelic dysplasia, autosomal sex-reversal) (SOX9), mRNA.	NM_000346.2	8.67	10.48	1.81	11.52
ILMN_1753143	RHPN2	rhophilin, Rho GTPase binding protein 2 (RHPN2), mRNA.	NM_033103.3	10.07	11.24	1.16	11.52
ILMN_1707727	ANGPTL4	angiopoietin-like 4 (ANGPTL4), transcript variant 1, mRNA.	NM_139314.1	6.89	8.55	1.66	11.46
ILMN_1657679	VAV3	vav 3 guanine nucleotide exchange factor (VAV3), transcript variant 1, mRNA.	NM_006113.4	9.23	7.53	-1.71	11.46
ILMN_1689037	LIPG	lipase, endothelial (LIPG), mRNA.	NM_006033.2	10	11.29	1.28	11.44
ILMN_1753370	ABTB2	ankyrin repeat and BTB (POZ) domain containing 2 (ABTB2), mRNA.	NM_145804.1	6.56	8.02	1.46	11.41
ILMN_2374340	PLAUR	plasminogen activator, urokinase receptor (PLAUR), transcript variant 2, mRNA.	NM_001005376.1	7.83	9.07	1.24	11.4
ILMN_2414325	TNFAIP8	tumor necrosis factor, alpha-induced protein 8 (TNFAIP8), transcript variant 2, mRNA.	NM_001077654.1	8.9	9.97	1.07	11.4
ILMN_1709067	SAMD11	sterile alpha motif domain containing 11 (SAMD11), mRNA.	NM_152486.2	6.04	7.35	1.31	11.36
ILMN_1769201	ELF3	E74-like factor 3 (ets domain transcription factor, epithelial-specific) (ELF3), mRNA.	NM_004433.3	8.85	7.53	-1.31	11.35
ILMN_1753613	HOXA5	homeobox A5 (HOXA5), mRNA.	NM_019102.2	11.12	10.26	-0.86	11.29
ILMN_1692748	BNC1	basonuclin 1 (BNC1), mRNA.	NM_001717.2	7.79	9.29	1.5	11.17
ILMN_1685574	TSC22D2	TSC22 domain family, member 2 (TSC22D2), mRNA.	NM_014779.2	8.53	9.9	1.37	11.1
ILMN_1787567	TSC22D1	TSC22 domain family, member 1 (TSC22D1), transcript variant 2, mRNA.	NM_006022.2	11.62	12.64	1.01	11.09
ILMN_2041190	F2RL1	coagulation factor II (thrombin) receptor-like 1 (F2RL1), mRNA.	NM_005242.3	10.68	11.63	0.95	11.09
ILMN_1784661	TMEM2	transmembrane protein 2 (TMEM2), mRNA.	NM_013390.1	9.03	10.21	1.17	11.07
ILMN_1794598	SCHIP1	schwannomin interacting protein 1 (SCHIP1), mRNA.	NM_014575.2	9.39	10.4	1.01	11.07
ILMN_1808391	DUSP4	dual specificity phosphatase 4 (DUSP4), transcript variant 1, mRNA.	NM_001394.5	6.49	7.67	1.18	10.96
ILMN_1801504	RUNX1	run-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene) (RUNX1), transcript variant 1, mRNA.	NM_001754.3	9.91	10.91	1	10.9
ILMN_1699265	TNFRSF10B	tumor necrosis factor receptor superfamily, member 10b (TNFRSF10B), transcript variant 1, mRNA.	NM_003842.3	9.69	10.68	0.99	10.84
ILMN_1694767	LOC652688	PREDICTED: similar to Zinc finger protein basonuclin-1 (LOC652688), mRNA.	XM_942297.1	7.72	9.23	1.51	10.82
ILMN_1872032		AGENCOURT_10400346 NIH_MGC_82 cDNA clone IMAGE:6616124 5, mRNA sequence		7.18	8.09	0.9	10.65
ILMN_1763638	BCAR3	breast cancer anti-estrogen resistance 3 (BCAR3), mRNA.	NM_003567.2	10.68	11.78	1.1	10.56
ILMN_2371055	EFNA1	ephrin-A1 (EFNA1), transcript variant 1, mRNA.	NM_004428.2	12.31	11.4	-0.91	10.56
ILMN_1660451	STARD13	START domain containing 13 (STARD13), transcript variant delta, mRNA.	NM_178008.1	8.11	9.12	1.01	10.52
ILMN_2396020	DUSP6	dual specificity phosphatase 6 (DUSP6), transcript variant 2, mRNA.	NM_022652.2	8.36	10.1	1.74	10.48
ILMN_1665510	ERRFI1	ERBB receptor feedback inhibitor 1 (ERRFI1), mRNA.	NM_018948.2	9.69	10.9	1.2	10.47

Supplement 2: TGFb Signature - significantly regulated genes upon 2h TGFb stimulation of HaCaT cells

Illumina Identifier	HGNC Gene Symbol	Gene Description	Refseq ID	UT 2h	UT+TGFb 2h	LR +/- TGFb 2h	-log10 pVAL LR +/- TGFb 2h
ILMN_1694075	GADD45A	growth arrest and DNA-damage-inducible, alpha (GADD45A), mRNA.	NM_001924.2	8.93	10.14	1.21	10.46
ILMN_1780861	LOC653506	PREDICTED: similar to meteorin, glial cell differentiation regulator-like (LOC653506), mRNA.	XM_927769.1	9.44	10.44	1	10.46
ILMN_1790338	PRRX2	paired related homeobox 2 (PRRX2), mRNA.	NM_016307.3	5.89	7.13	1.24	10.44
ILMN_2086105	SPRY4	sprouty homolog 4 (Drosophila) (SPRY4), mRNA.	NM_030964.2	6.33	7.33	1	10.41
ILMN_2308849	MYADM	myeloid-associated differentiation marker (MYADM), transcript variant 4, mRNA.	NM_001020820.1	10.58	11.69	1.11	10.31
ILMN_1803811	TRIB1	tribbles homolog 1 (Drosophila) (TRIB1), mRNA.	NM_025195.2	9.89	10.99	1.11	10.31
ILMN_1715133	IVNS1ABP	influenza virus NS1A binding protein (IVNS1ABP), transcript variant 2, mRNA.	NM_016389.2	6.72	8.02	1.3	10.27
ILMN_1653824	LAMC2	laminin, gamma 2 (LAMC2), transcript variant 1, mRNA.	NM_005562.1	9.3	10.93	1.63	10.1
ILMN_1666819	PHLD81	pleckstrin homology-like domain, family B, member 1 (PHLD81), mRNA.	NM_015157.1	10.67	11.63	0.96	9.98
ILMN_1695604	DCBLD1	discoidin, CUB and LCCL domain containing 1 (DCBLD1), mRNA.	NM_173674.1	9.24	10.49	1.25	9.97
ILMN_1751785	DMRT2	doublesex and mab-3 related transcription factor 2 (DMRT2), transcript variant 1, mRNA.	NM_006557.4	8.31	7.15	-1.17	9.89
ILMN_1712684	FAM20C	family with sequence similarity 20, member C (FAM20C), mRNA.	NM_020223.2	8.13	9.22	1.09	9.86
ILMN_1662188	WNT11	wingless-type MMTV integration site family, member 11 (WNT11), mRNA.	NM_004626.2	5.87	6.99	1.12	9.78
ILMN_1214187	TSC22D2	TSC22 domain family, member 2 (TSC22D2), mRNA.	NM_014779.2	9.88	10.96	1.09	9.78
ILMN_1894911		cDNA FLJ45933 fis, clone PLACE7003639		5.92	6.83	0.91	9.78
ILMN_2397750	IVNS1ABP	influenza virus NS1A binding protein (IVNS1ABP), mRNA.	NM_006469.4	8.95	10.78	1.84	9.76
ILMN_1855278		EST366269 MAGE resequences, MAGC cDNA, mRNA sequence		8.12	9.31	1.18	9.75
ILMN_1671557	PHLDA2	pleckstrin homology-like domain, family A, member 2 (PHLDA2), mRNA.	NM_003311.3	7.87	8.86	0.99	9.75
ILMN_1800540	CD55	CD55 molecule, decay accelerating factor for complement (Cromer blood group) (CD55), mRNA.	NM_000574.2	9.09	10.24	1.15	9.52
ILMN_1694268	HESE	hairly and enhancer of split 6 (Drosophila) (HESE), mRNA.	NM_018645.3	8.1	9.23	1.13	9.5
ILMN_2342695	PDGFA	platelet-derived growth factor alpha polypeptide (PDGFA), transcript variant 2, mRNA.	NM_033023.3	8.4	9.88	1.48	9.49
ILMN_2372915	P2RY2	purinergic receptor P2Y, G-protein coupled, 2 (P2RY2), transcript variant 2, mRNA.	NM_002564.2	8.32	9.57	1.26	9.49
ILMN_1748970	ATAD4	ATPase family, AAA domain containing 4 (ATAD4), mRNA.	NM_024320.2	8.79	7.6	-1.2	9.49
ILMN_2399300	NAV2	neuron navigator 2 (NAV2), transcript variant 2, mRNA.	NM_145117.3	8.33	9.4	1.07	9.46
ILMN_1724832	OVOL2	ovo-like 2 (Drosophila) (OVOL2), mRNA.	NM_021220.2	10.5	11.21	0.72	9.44
ILMN_2137789	KLF4	Kruppel-like factor 4 (gut) (KLF4), mRNA.	NM_004235.3	8.99	9.94	0.95	9.39
ILMN_1679782	BLOC1S2	biogenesis of lysosome-related organelles complex-1, subunit 2 (BLOC1S2), transcript variant 2, mRNA.	NM_001001342.1	7.05	8.09	1.04	9.37
ILMN_2374115	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha) (TFAP2A), transcript variant 2, mRNA.	NM_001032280.2	9.6	8.67	-0.93	9.37
ILMN_1771841	FOSL1	FOS-like antigen 1 (FOSL1), mRNA.	NM_005438.2	7.98	9.29	1.31	9.36
ILMN_1764709	MAFB	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) (MAFB), mRNA.	NM_005461.3	7.21	8.66	1.45	9.17
ILMN_1736760	KRT16	keratin 16 (focal non-epidermolytic palmoplantar keratoderma) (KRT16), mRNA.	NM_005557.2	7.95	9.07	1.12	9.09
ILMN_1750748	MGC102966	PREDICTED: similar to Keratin, type I cytoskeletal 16 (Cytokeatin-16) (CK-16) (Keratin-16) (K16) (MGC102966), misc RNA.	XR_015970.1	8.82	10.03	1.22	9.07
ILMN_1670111	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) (CDKN2B), transcript variant 2, mRNA.	NM_078487.2	5.96	7.24	1.28	9.03
ILMN_2397521	JMJD3	jumonji domain containing 3, histone lysine demethylase (JMJD3), mRNA.	NM_001080424.1	6.13	7.29	1.16	9
ILMN_2380566	SLAH1	seven in absentia homolog 1 (Drosophila) (SLAH1), transcript variant 2, mRNA.	NM_001006610.1	9.36	10.18	0.82	9
ILMN_1747078	HYLS1	hydrolethalus syndrome 1 (HYLS1), mRNA.	NM_145014.1	9.45	8.61	-0.83	8.99
ILMN_1793729	C15orf39	chromosome 15 open reading frame 39 (C15orf39), mRNA.	NM_015492.4	7.02	8.22	1.2	8.93
ILMN_1656826	SH3RF1	SH3 domain containing ring finger 1 (SH3RF1), mRNA.	NM_020870.3	8.2	9.6	1.4	8.89
ILMN_1700081	FST	folliculin (FST), transcript variant FST344, mRNA.	NM_013409.1	12.35	13.33	0.98	8.83
ILMN_1703123	AXUD1	AXIN1 up-regulated 1 (AXUD1), mRNA.	NM_033027.2	8.37	9.17	0.8	8.78
ILMN_1679464	BNC1	basonuclin 1 (BNC1), mRNA.	NM_001717.2	7.52	8.64	1.13	8.76
ILMN_1710284	HES1	hairly and enhancer of split 1, (Drosophila) (HES1), mRNA.	NM_005524.2	7.38	6.45	-0.94	8.75
ILMN_2226917	KIAA0247	KIAA0247 (KIAA0247), mRNA.	NM_014734.2	8.46	9.61	1.14	8.68
ILMN_2318643	TGIF1	TGFB-induced factor homeobox 1 (TGIF1), transcript variant 1, mRNA.	NM_170695.2	8.63	9.75	1.12	8.61
ILMN_1657870	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2 (arg, Abelson-related gene) (ABL2), transcript variant a, mRNA.	NM_005158.3	6.61	7.91	1.3	8.6
ILMN_2365465	XBP1	X-box binding protein 1 (XBP1), transcript variant 2, mRNA.	NM_001079539.1	11.96	12.65	0.69	8.55
ILMN_1651365	ZBED2	zinc finger, BED-type containing 2 (ZBED2), mRNA.	NM_024508.3	10.6	11.44	0.85	8.48
ILMN_1722781	EGR3	early growth response 3 (EGR3), mRNA.	NM_004430.2	6.1	7.23	1.14	8.44
ILMN_1654518	LRCH4	leucine-rich repeats and calponin homology (CH) domain containing 4 (LRCH4), mRNA.	NM_002319.2	8.93	7.95	-0.98	8.37
ILMN_1652762	HIC2	hypermethylated in cancer 2 (HIC2), mRNA.	NM_015094.2	9.42	8.57	-0.85	8.36
ILMN_1743933	TSHZ3	teashirt zinc finger homeobox 3 (TSHZ3), mRNA.	NM_020856.2	6.4	7.56	1.16	8.31
ILMN_1696585	FERMT1	fermitin family homolog 1 (Drosophila) (FERMT1), mRNA.	NM_017671.4	11.25	12.21	0.96	8.3
ILMN_2183938	LEMD3	LEM domain containing 3 (LEMD3), mRNA.	NM_014319.3	10.85	11.7	0.85	8.25
ILMN_2150654	ZSWIM4	zinc finger, SWIM-type containing 4 (ZSWIM4), mRNA.	NM_023072.1	8.19	8.91	0.71	8.15
ILMN_1839481		cDNA FLJ37828 fis, clone BRSSN2006575		7.45	6.51	-0.93	8.15
ILMN_1838942		we85A04.x1 Soares_NFL_T_GBC_S1 cDNA clone IMAGE:2347854 3, mRNA sequence		7.62	6.57	-1.05	8.15
ILMN_1806328	POK1L	PDLIM1 interacting kinase 1 like (POK1L), mRNA.	NM_152835.2	8.65	7.48	-1.17	8.13
ILMN_1708041	PLEKHF1	pleckstrin homology domain containing, family F (with FYVE domain) member 1 (PLEKHF1), mRNA.	NM_024310.4	9.25	8.37	-0.88	8.04
ILMN_1703955	FBXO32	F-box protein 32 (FBXO32), transcript variant 2, mRNA.	NM_148177.1	8.93	7.97	-0.95	8.04
ILMN_2214678	MXD1	MAX dimerization protein 1 (MXD1), mRNA.	NM_002357.2	8.59	9.51	0.92	8.02
ILMN_2403852	PSCD1	pleckstrin homology, Sec7 and coiled-coil domains 1 (cytohesin 1) (PSCD1), transcript variant 2, mRNA.	NM_017456.2	7.03	8.11	1.08	8.01
ILMN_2374249	DYRK2	dual-specificity tyrosine-[Y]-phosphorylation regulated kinase 2 (DYRK2), transcript variant 1, mRNA.	NM_003583.2	9.41	10.17	0.76	7.96
ILMN_1759513	RND3	Rho family GTPase 3 (RND3), mRNA.	NM_005168.3	10.04	11.11	1.07	7.93
ILMN_2391976	SLC45A4	solute carrier family 45, member 4 (SLC45A4), mRNA.	NM_001080431.1	6.53	7.42	0.89	7.87
ILMN_1790014	METRNL	PREDICTED: meteorin, glial cell differentiation regulator-like (METRNL), mRNA.	XM_941466.2	7.21	8.23	1.02	7.83
ILMN_1801610	METRNL	PREDICTED: meteorin, glial cell differentiation regulator-like (METRNL), mRNA.	XM_941466.2	6.95	7.86	0.9	7.83
ILMN_1718968	MT1E	metallothionein 1E (functional) (MT1E), mRNA.	NM_175617.2	7.34	6.52	-0.82	7.8
ILMN_1688775	METRNL	PREDICTED: meteorin, glial cell differentiation regulator-like (METRNL), mRNA.	XM_941466.2	8.4	9.31	0.91	7.79
ILMN_1738989	GOLSYN	Golgi-localized protein (GOLSYN), transcript variant 7, mRNA.	NM_001099743.1	9.71	8.86	-0.85	7.77
ILMN_1797009	F3	coagulation factor III (thromboplastin, tissue factor) (F3), mRNA.	NM_001993.2	8.74	9.8	1.05	7.7
ILMN_1755954	CPEB3	cytoplasmic polyadenylation element binding protein 3 (CPEB3), mRNA.	NM_014912.3	8.93	7.71	-1.22	7.67
ILMN_1713813	LOC400578	PREDICTED: similar to Keratin, type I cytoskeletal 14 (Cytokeatin-14) (CK-14) (Keratin-14) (K14) (LOC400578), mRNA.	XR_017543.1	8.55	9.61	1.06	7.63
ILMN_1780255	KLK6	kallikrein-related peptidase 6 (KLK6), transcript variant B, mRNA.	NM_001012964.1	8.86	9.68	0.81	7.62
ILMN_1729417	GNE	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase (GNE), mRNA.	NM_005476.3	8.53	7.45	-1.08	7.61
ILMN_1778575	WNT7A	wingless-type MMTV integration site family, member 7A (WNT7A), mRNA.	NM_004625.3	8.09	8.98	0.89	7.6
ILMN_1652082	ELF4	E74-like factor 4 (ets domain transcription factor) (ELF4), mRNA.	NM_001421.2	10.61	11.44	0.83	7.58
ILMN_2394561	IRF2BP2	interferon regulatory factor 2 binding protein 2 (IRF2BP2), transcript variant 1, mRNA.	NM_182972.2	8.4	9.29	0.88	7.55
ILMN_1689004	TNFRSF12A	tumor necrosis factor receptor superfamily, member 12A (TNFRSF12A), mRNA.	NM_016639.1	11	12.14	1.14	7.53
ILMN_1757736	IRX5	iroquois homeobox 5 (IRX5), mRNA.	NM_005853.5	9.69	8.81	-0.88	7.53
ILMN_1726153	MGC4677	PREDICTED: hypothetical protein MGC4677 (MGC4677), mRNA.	XM_939115.1	6.72	7.66	0.93	7.51
ILMN_1695590	ADRB2	adrenergic, beta-2-, receptor, surface (ADRB2), mRNA.	NM_000024.4	8.92	7.99	-0.92	7.46
ILMN_1757237	DDEF2	development and differentiation enhancing factor 2 (DDEF2), mRNA.	NM_003887.1	9.26	10.33	1.07	7.41
ILMN_2129572	F3	coagulation factor III (thromboplastin, tissue factor) (F3), mRNA.	NM_001993.2	11.1	11.96	0.86	7.38
ILMN_1711627	SIAH1	seven in absentia homolog 1 (Drosophila) (SIAH1), transcript variant 2, mRNA.	NM_001006610.1	11.34	12.13	0.79	7.38
ILMN_1775016	MPZL2	myelin protein zero-like 2 (MPZL2), transcript variant 2, mRNA.	NM_144765.1	9.17	8.4	-0.77	7.38
ILMN_2402416	DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6 (DNAJB6), transcript variant 2, mRNA.	NM_005494.2	10.57	11.33	0.76	7.26
ILMN_1773417	AKR1C2	PREDICTED: aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxy	XM_943415.1	7.65	6.61	-1.04	7.24
ILMN_1718766	MT1F	metallothionein 1F (MT1F), mRNA.	NM_005949.2	11.45	10.78	-0.67	7.13
ILMN_2128639	C10orf47	chromosome 10 open reading frame 47 (C10orf47), mRNA.	NM_153256.2	8.39	9.35	0.96	7.11
ILMN_1775822	PDGFB	platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog) (PDGFB), transcript variant 1,	NM_002608.1	6.54	7.49	0.95	7.09
ILMN_2044453	LPAR5	lysophosphatidic acid receptor 5 (LPAR5), mRNA.	NM_020400.4	9.59	10.3	0.71	7.04
ILMN_1717639	SNF1LK	SNF1-like kinase (SNF1LK), mRNA.	NM_173354.3	7.32	8.18	0.86	6.88
ILMN_1692936	OVOL1	ovo-like 1 (Drosophila) (OVOL1), mRNA.	NM_004561.2	6.43	7.28	0.86	6.86
ILMN_1687721	PROC	protein C (inactivator of coagulation factors Va and VIIIa) (PROC), mRNA.	NM_000312.1	7.12	7.94	0.83	6.85
ILMN_1770850	PNMA1	paraneoplastic antigen MA1 (PNMA1), mRNA.	NM_006029.4	8	8.97	0.98	6.84
ILMN_1711087	LOC648526	PREDICTED: similar to epiplakin 1 (LOC648526), mRNA.	XM_937579.1	7.86	8.79	0.93	6.8
ILMN_2196347	CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1) (CDKN1B), mRNA.	NM_004064.2	9.71	8.89	-0.82	6.8
ILMN_1899317		BX118287 Soares placenta Nb2HP cDNA clone IMAGp998N04207, mRNA sequence		7.23	6.28	-0.95	6.76
ILMN_1748206	C20orf160	chromosome 20 open reading frame 160 (C20orf160), mRNA.	NM_080625.2	5.77	6.42	0.65	6.73
ILMN_1705442	CMTM3	CLK-like MARVEL transmembrane domain containing 3 (CMTM3), transcript variant 1, mRNA.	NM_144601.2	8.54	9.28	0.74	6.71
ILMN_2133100	LPIN2	lipin 2 (LPIN2), mRNA.	NM_014646.2	7.48	8.41	0.93	6.65

**Supplement 2: TGFb Signature - significantly regulated genes upon 2h TGFb stimulation of HaCaT cells**

Illumina Identifier	HGNC Gene Symbol	Gene Description	Refseq ID	UT 2h	UT+TGFb 2h	LR +/- TGFb 2h	-log10 pVAL LR +/- TGFb 2h
ILMN 1900110		BX099724 Soares fetal liver spleen_1NFLS S1 cDNA clone IMAGp998F201004, mRNA sequence		6.6	7.5	0.89	6.6
ILMN 2228938	ECM2	extracellular matrix protein 2, female organ and adipocyte specific (ECM2), mRNA.	NM_001393.2	9.04	8.31	-0.73	6.51
ILMN 1751243	OSBP17	oxysterol binding protein-like 7 (OSBP17), transcript variant 1, mRNA.	NM_145798.2	6.58	7.72	1.15	6.5
ILMN 1720771	STX11	syntaxin 11 (STX11), mRNA.	NM_003764.2	6.63	7.43	0.8	6.5
ILMN 1723124	GALK2	galactokinase 2 (GALK2), transcript variant 2, mRNA.	NM_001001556.1	9.1	8.34	-0.76	6.5
ILMN 1678087	MAP3K4	mitogen-activated protein kinase kinase 4 (MAP3K4), transcript variant 1, mRNA.	NM_005922.2	10.09	10.78	0.7	6.35
ILMN 1745256	CXXC5	CXXC finger 5 (CXXC5), mRNA.	NM_016463.5	10.4	11.06	0.66	6.32
ILMN 1804007	NANOS3	nanos homolog 3 (Drosophila) (NANOS3), mRNA.	NM_001098622.1	6.64	7.46	0.82	6.29
ILMN 1770537	NGFRAP1	nerve growth factor receptor (TNFRSF16) associated protein 1 (NGFRAP1), transcript variant 3, mRNA.	NM_014380.1	8.04	7.14	-0.89	6.28
ILMN 2197365	RGS2	regulator of G-protein signalling 2, 24kDa (RGS2), mRNA.	NM_002923.1	9.51	8.59	-0.92	6.24
ILMN 2399463	VAV3	vav 3 guanine nucleotide exchange factor (VAV3), transcript variant 1, mRNA.	NM_006113.4	7.2	6.07	-1.13	6.24
ILMN 1779147	ENC1	ectodermal-neural cortex (with BTB-like domain) (ENC1), mRNA.	NM_003633.1	7.86	9.16	1.31	6.23
ILMN 2046470	DAAM1	dishevelled associated activator of morphogenesis 1 (DAAM1), mRNA.	NM_014992.1	11.24	12.31	1.07	6.22
ILMN 1746763	ECM2	extracellular matrix protein 2, female organ and adipocyte specific (ECM2), mRNA.	NM_001393.2	7.58	6.82	-0.76	6.22
ILMN 1756806	MCL1	myeloid cell leukemia sequence 1 (BCL2-related) (MCL1), transcript variant 1, mRNA.	NM_021960.3	9.11	9.97	0.86	6.21
ILMN 2314169	PTH1H	parathyroid hormone-like hormone (PTH1H), transcript variant 1, mRNA.	NM_198965.1	12.7	13.4	0.7	6.21
ILMN 1750338	C10orf47	chromosome 10 open reading frame 47 (C10orf47), mRNA.	NM_153256.2	7.44	8.33	0.89	6.1
ILMN 1772686	FGD3	FYVE, RhoGEF and PH domain containing 3 (FGD3), transcript variant 2, mRNA.	NM_033086.2	8.28	7.46	-0.82	6.08
ILMN 2195821	C5orf41	chromosome 5 open reading frame 41 (C5orf41), mRNA.	NM_153607.1	8.41	7.42	-0.99	6.08
ILMN 1739428	IFIT2	interferon-induced protein with tetratricopeptide repeats 2 (IFIT2), mRNA.	NM_001547.4	9.77	8.8	-0.97	6.05
ILMN 2408683	PPAP2B	phosphatidic acid phosphatase type 2B (PPAP2B), transcript variant 2, mRNA.	NM_177414.1	6.46	7.3	0.84	6.03
ILMN 1666392	WNT4	wingless-type MMTV integration site family, member 4 (WNT4), mRNA.	NM_030761.3	6.35	7.25	0.9	6.02
ILMN 1663976	PDLIM4	PDZ and LIM domain 4 (PDLIM4), mRNA.	NM_003687.2	6.5	7.29	0.8	6.02
ILMN 1782412	IRX2	Iroquois homeobox 2 (IRX2), mRNA.	NM_033267.3	9.98	9.38	-0.61	6.02
ILMN 1697448	TXNIP	thioredoxin interacting protein (TXNIP), mRNA.	NM_006472.2	11.2	10.31	-0.89	5.96
ILMN 1680987	HAND1	heart and neural crest derivatives expressed 1 (HAND1), mRNA.	NM_004821.1	6.1	6.9	0.8	5.94
ILMN 1790228	FURIN	furin (paired basic amino acid cleaving enzyme) (FURIN), mRNA.	NM_002569.2	7.08	7.8	0.72	5.94
ILMN 2094396	LRRRC8C	leucine rich repeat containing 8 family, member C (LRRRC8C), mRNA.	NM_032270.2	7.81	8.93	1.12	5.92
ILMN 1785699	PTH1H	parathyroid hormone-like hormone (PTH1H), transcript variant 3, mRNA.	NM_198964.1	11.72	12.32	0.6	5.89
ILMN 1811470	PLEK2	pleckstrin 2 (PLEK2), mRNA.	NM_016445.1	10.18	10.97	0.79	5.77
ILMN 1718671	GJB6	gap junction protein, beta 6 (GJB6), mRNA.	NM_006783.2	6.01	6.72	0.71	5.76
ILMN 1914612		DA199814 BRAWH2 cDNA clone BRAWH2003556 S5, mRNA sequence		6.73	7.93	1.2	5.65
ILMN 1669390	PPP1R13L	protein phosphatase 1, regulatory (inhibitor) subunit 13 like (PPP1R13L), mRNA.	NM_006663.2	8.84	9.73	0.89	5.65
ILMN 1728230	ZNF30	zinc finger protein 30 (ZNF30), transcript variant 2, mRNA.	NM_001099437.1	8.18	7.37	-0.81	5.61
ILMN 1799579	CCDC51	coiled-coil domain containing 51 (CCDC51), mRNA.	NM_024661.3	9.06	8.22	-0.84	5.49
ILMN 1712708	TRIM47	tripartite motif-containing 47 (TRIM47), mRNA.	NM_033452.2	7.64	8.74	1.1	5.44
ILMN 1746676	CLDN8	claudin 8 (CLDN8), mRNA.	NM_199328.1	8.72	7.81	-0.9	5.44
ILMN 1714710	CCDC120	coiled-coil domain containing 120 (CCDC120), mRNA.	NM_033626.2	10.02	10.56	0.54	5.42
ILMN 2371053	EFNA1	ephrin-A1 (EFNA1), transcript variant 1, mRNA.	NM_004428.2	9.01	8.19	-0.82	5.39
ILMN 2394305	PDGFB	platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog) (PDGFB), transcript variant 2, mRNA.	NM_033016.1	6.45	7.12	0.67	5.35
ILMN 1683916	PEX13	peroxisome biogenesis factor 13 (PEX13), mRNA.	NM_002618.2	9.55	10.19	0.64	5.35
ILMN 1738546	LOC400578	PREDICTED: similar to Keratin, type I cytoskeletal 14 (Cytokeratin-14) (CK-14) (Keratin-14) (K14) (LOC400578), mRNA.	XR_017543.1	6.7	7.62	0.93	5.34
ILMN 1803510	LOC650803	PREDICTED: hypothetical protein LOC650803 (LOC650803), mRNA.	XM_939893.1	7.46	8.34	0.87	5.34
ILMN 1827562		cDNA FLJ42786 fis, clone BRAWH3006761		6.8	7.58	0.78	5.34
ILMN 2364022	SLC16A3	solute carrier family 16, member 3 (monocarboxylic acid transporter 4) (SLC16A3), transcript variant 2, mRNA.	NM_004207.2	8.54	9.28	0.74	5.32
ILMN 1802082	PRDM8	PR domain containing 8 (PRDM8), transcript variant 1, mRNA.	NM_020226.3	6.85	7.79	0.95	5.3
ILMN 2098616	C5orf39	chromosome 5 open reading frame 39 (C5orf39), mRNA.	NM_001014279.1	7.34	6.7	-0.64	5.3
ILMN 1670158	FAM83A	family with sequence similarity 83, member A (FAM83A), transcript variant 2, mRNA.	NM_207006.1	8.25	9.01	0.76	5.27
ILMN 1757129	TMEM88	transmembrane protein 88 (TMEM88), mRNA.	NM_203411.1	5.91	6.92	1	5.26
ILMN 1739840	LRRRC8A	leucine rich repeat containing 8 family, member A (LRRRC8A), mRNA.	NM_019594.2	11.14	11.66	0.52	5.25
ILMN 1814282	ISG20L1	interferon stimulated exonuclease gene 20kDa-like 1 (ISG20L1), mRNA.	NM_022767.2	8.98	9.78	0.8	5.24
ILMN 1740466	FAM46A	family with sequence similarity 46, member A (FAM46A), mRNA.	NM_017633.2	8.82	8.21	-0.61	5.23
ILMN 1726512	ZSCAN2	zinc finger and SCAN domain containing 2 (ZSCAN2), transcript variant 1, mRNA.	NM_181877.3	7.86	7.15	-0.7	5.2
ILMN 1660204	IGSF9B	immunoglobulin superfamily, member 9B (IGSF9B), mRNA.	NM_014987.1	7.16	7.98	0.82	5.19
ILMN 1765574	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha) (TFAP2A), transcript variant 3, mRNA.	NM_001042425.1	11.98	11.24	-0.74	5.19
ILMN 2412380	TSC22D1	TSC22 domain family, member 1 (TSC22D1), transcript variant 1, mRNA.	NM_183422.1	9.79	10.72	0.92	5.17
ILMN 1913858		DB233579 TRACH3 cDNA clone TRACH3027878 S5, mRNA sequence		5.69	6.41	0.72	5.15
ILMN 1663080	LFNG	LFNG O-fucosyltransferase 3-beta-N-acetylglucosaminyltransferase (LFNG), transcript variant 1, mRNA.	NM_001040167.1	10.73	11.39	0.66	5.15
ILMN 1721842	RYBP	RING1 and YY1 binding protein (RYBP), mRNA.	NM_012234.4	9.6	10.44	0.84	5.04
ILMN 1792072	FUT4	fucosyltransferase 4 (alpha 1,3) fucosyltransferase, myeloid-specific (FUT4), mRNA.	NM_002033.2	7.08	7.86	0.78	5.04
ILMN 1710514	BCL3	B-cell CLL/lymphoma 3 (BCL3), mRNA.	NM_005178.2	7.59	8.22	0.63	5.02
ILMN 1747673	RASL10A	RAS-like, family 10, member A (RASL10A), transcript variant 2, mRNA.	NM_001007279.1	6.12	6.82	0.7	4.94
ILMN 1784364	STAR05	STAR-related lipid transfer (START) domain containing 5 (STAR05), mRNA.	NM_181900.2	8.43	7.8	-0.63	4.93
ILMN 1716370	TNS4	tensin 4 (TNS4), mRNA.	NM_032865.4	6.1	6.98	0.89	4.92
ILMN 1671731	AVP11	arginine vasopressin-induced 1 (AVP11), mRNA.	NM_021732.1	12.05	11.5	-0.54	4.87
ILMN 1809433	XBP1	X-box binding protein 1 (XBP1), transcript variant 1, mRNA.	NM_005080.2	12.38	13.07	0.69	4.83
ILMN 1727361	LEMD3	LEM domain containing 3 (LEMD3), mRNA.	NM_014319.3	9.88	10.78	0.89	4.82
ILMN 1660847	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 (PFKFB3), mRNA.	NM_004566.2	7.3	8.04	0.75	4.8
ILMN 1728710	ZNF816A	zinc finger protein 816A (ZNF816A), mRNA.	NM_001031665.1	8.36	7.77	-0.58	4.69
ILMN 1798256	UPP1	uridine phosphorylase 1 (UPP1), transcript variant 1, mRNA.	NM_003364.2	11.95	12.51	0.56	4.63
ILMN 1652223	WDR91	WD repeat domain 91 (WDR91), mRNA.	NM_014149.2	7.25	7.96	0.71	4.62
ILMN 1655557	INTS6	integrator complex subunit 6 (INTS6), transcript variant 2, mRNA.	NM_001039937.1	10.61	11.19	0.58	4.62
ILMN 1800311	HSF2	heat shock transcription factor 2 (HSF2), mRNA.	NM_004506.2	8.54	7.88	-0.66	4.56
ILMN 2408543	PLAUR	plasminogen activator, urokinase receptor (PLAUR), transcript variant 1, mRNA.	NM_002659.2	6.91	7.74	0.83	4.53
ILMN 1668863	LYPD1	LY6/PLAUR domain containing 1 (LYPD1), transcript variant 1, mRNA.	NM_144586.5	8.48	9.3	0.81	4.53
ILMN 1690921	STAT2	signal transducer and activator of transcription 2, 113kDa (STAT2), mRNA.	NM_005419.2	10.59	10.04	-0.56	4.53
ILMN 2239774	FAM83A	family with sequence similarity 83, member A (FAM83A), transcript variant 1, mRNA.	NM_032899.4	8.49	9.37	0.87	4.5
ILMN 1737993	ERBB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) (ERBB3), transcript variant s, mRNA.	NM_001005915.1	7.87	6.98	-0.89	4.5
ILMN 1713983	FLJ41766	PREDICTED: similar to hypothetical protein, transcript variant 1 (FLJ41766), mRNA.	XM_375307.4	7.51	6.74	-0.77	4.43
ILMN 1751598	SESN2	sestrin 2 (SESN2), mRNA.	NM_031459.3	6.56	7.36	0.8	4.39
ILMN 1714170	SPSB1	splA/ryanodine receptor domain and SOCS box containing 1 (SPSB1), mRNA.	NM_025106.2	7.58	8.3	0.72	4.37
ILMN 1723481	CHST3	carbohydrate (chondroitin 6) sulfotransferase 3 (CHST3), mRNA.	NM_004273.2	7.87	8.5	0.63	4.37
ILMN 1701308	COL1A1	collagen, type I, alpha 1 (COL1A1), mRNA.	NM_000088.3	6.15	6.85	0.7	4.36
ILMN 1698484	RHOV	ras homolog gene family, member V (RHOV), mRNA.	NM_133639.2	6.57	5.83	-0.74	4.36
ILMN 1717636	RGMA	RGM domain family, member A (RGMA), mRNA.	NM_020211.1	7.86	7.1	-0.76	4.36
ILMN 1705814	KRT80	keratin 80 (KRT80), transcript variant 1, mRNA.	NM_182507.2	11.9	12.46	0.56	4.34
ILMN 1793474	INSIG1	insulin induced gene 1 (INSIG1), transcript variant 2, mRNA.	NM_198336.1	10.44	9.9	-0.55	4.32
ILMN 1691180	OTX1	orthodenticle homeobox 1 (OTX1), mRNA.	NM_014562.2	7.88	6.84	-1.04	4.32
ILMN 1775501	IL18	interleukin 1, beta (IL18), mRNA.	NM_000576.2	7.49	6.82	-0.67	4.31
ILMN 1669052	LRRRC8E	leucine rich repeat containing 8 family, member E (LRRRC8E), mRNA.	NM_025061.3	8.01	8.6	0.59	4.29
ILMN 2081087	HSPA12A	heat shock 70kDa protein 12A (HSPA12A), mRNA.	NM_025015.2	10.58	11.09	0.52	4.28
ILMN 1792389	RNF165	ring finger protein 165 (RNF165), mRNA.	NM_152470.2	8.42	9.22	0.8	4.23
ILMN 1904596		xd95a11.x1 Soares NFL T GBC S1 cDNA clone IMAGE:2605340 3, mRNA sequence		5.76	6.29	0.54	4.23
ILMN 1903914		cDNA FLJ21688 fis, clone ADG04821		8.24	9.04	0.79	4.22
ILMN 1666122	HEG1	HEG homolog 1 (zebrafish) (HEG1), mRNA.	NM_020733.1	7.66	8.32	0.66	4.22
ILMN 2393010	C17orf91	chromosome 17 open reading frame 91 (C17orf91), transcript variant 2, mRNA.	NM_001001870.1	9.67	10.27	0.6	4.17
ILMN 1730928	CDK5R1	cyclin-dependent kinase 5, regulatory subunit 1 (p35) (CDK5R1), mRNA.	NM_003885.2	7.1	7.81	0.71	4.11
ILMN 1776788	C5orf41	chromosome 5 open reading frame 41 (C5orf41), mRNA.	NM_153607.1	7.98	7.09	-0.9	4.11
ILMN 2198413	MYEOV	myeloma overexpressed gene (in a subset of t(11;14) positive multiple myelomas) (MYEOV), mRNA.	NM_138768.2	5.92	7.08	1.17	4.07
ILMN 1909770		cDNA: FLJ21199 fis, clone COL00235		6.4	7.2	0.79	4.04
ILMN 1674160	BIN1	bridging integrator 1 (BIN1), transcript variant 4, mRNA.	NM_139346.1	8.8	9.32	0.52	4.02

**Supplement 2: TGFb Signature - significantly regulated genes upon 2h TGFb stimulation of HaCaT cells**

Illumina Identifier	HGNC Gene Symbol	Gene Description	Refseq ID	UT 2h	UT+TGFb 2h	LR +/- TGFb 2h	-log10 pVAL LR +/- TGFb 2h
ILMN_1716265	PGM2L1	phosphoglucosmutase 2-like 1 (PGM2L1), mRNA.	NM_173582.3	6.57	7.2	0.63	3.99
ILMN_1910330		BX116720 Soares_testis_NHT cDNA clone IMAGp998F241782, mRNA sequence		8.05	8.58	0.52	3.91
ILMN_1666376	TRIM56	tripartite motif-containing 56 (TRIM56), mRNA.	NM_030961.1	8.99	9.79	0.8	3.86
ILMN_1686513	CNTNAP3B	PREDICTED: contactin associated protein-like 3B, transcript variant 1 (CNTNAP3B), mRNA.	XM_497089.2	7.26	6.52	-0.74	3.82
ILMN_2188264	CYR61	cysteine-rich, angiogenic inducer, 61 (CYR61), mRNA.	NM_001554.3	7.97	9.31	1.34	3.81
ILMN_1655612	ARRDC2	arrestin domain containing 2 (ARRDC2), transcript variant 1, mRNA.	NM_015683.1	6.8	7.48	0.69	3.8
ILMN_1756953	GBP6	guanylate binding protein family, member 6 (GBP6), mRNA.	NM_198460.1	9.11	8.45	-0.66	3.78
ILMN_1762606	AQP11	aquaporin 11 (AQP11), mRNA.	NM_173039.1	7.26	6.66	-0.6	3.77
ILMN_1699989	BNIP1	BCL2/adenovirus E1B 19kD interacting protein like (BNIP1), mRNA.	NM_138278.2	7.96	7.24	-0.72	3.74
ILMN_2342066	METRN1	meteorin, glial cell differentiation regulator-like (METRN1), mRNA.	NM_001004431.1	6.63	7.31	0.68	3.72
ILMN_1770498	LOC728411	PREDICTED: similar to Beta-glucuronidase precursor (LOC728411), mRNA.	XM_001128030.1	7.84	7.23	-0.61	3.72
ILMN_2375879	VEGFA	vascular endothelial growth factor A (VEGFA), transcript variant 2, mRNA.	NM_003376.4	7.92	8.58	0.66	3.71
ILMN_1775587	STX19	syntaxin 19 (STX19), mRNA.	NM_001001850.1	7.86	7.21	-0.64	3.68
ILMN_1808047	PHC2	polyhomeotic homolog 2 (Drosophila) (PHC2), transcript variant 2, mRNA.	NM_004427.3	6.99	7.87	0.88	3.65
ILMN_1720595	MDGA1	MAM domain containing glycosylphosphatidylinositol anchor 1 (MDGA1), mRNA.	NM_153487.3	7.55	8.22	0.67	3.65
ILMN_1863962		BX116033 NCJ_CGAP_Lu24 cDNA clone IMAGp998A155622, mRNA sequence		7.24	6.63	-0.61	3.61
ILMN_1824362		BX105338 Soares_pregnant_uterus_NbHPU cDNA clone IMAGp998C114347, mRNA sequence		8.8	9.53	0.73	3.59
ILMN_1653856	STS-1	Cbl-interacting protein Sts-1 (STS-1), mRNA.	NM_032873.3	9.86	10.6	0.74	3.56
ILMN_1781565	MESDC1	mesoderm development candidate 1 (MESDC1), mRNA.	NM_022566.1	7.14	7.75	0.61	3.53
ILMN_2157099	CCNA1	cyclin A1 (CCNA1), mRNA.	NM_003914.2	7.51	8.02	0.51	3.53
ILMN_234561	SLC7A6	solute carrier family 7 (cationic amino acid transporter, y+ system), member 6 (SLC7A6), transcript variant 2, mRNA.	NM_001076785.1	8.3	8.95	0.66	3.52
ILMN_1823850		RST21348 Athersys RAGE Library cDNA, mRNA sequence		6.56	7.51	0.95	3.51
ILMN_2230566	RAB40B	RAB40B, member RAS oncogene family (RAB40B), mRNA.	NM_006822.1	10.52	10	-0.52	3.51
ILMN_1770293	KLF5	Kruppel-like factor 5 (intestinal) (KLF5), mRNA.	NM_001730.3	9.15	8.27	-0.88	3.48
ILMN_1907544		UI-E-EJ1-ajw-b-16-0-UI.r1 UI-E-EJ1 cDNA clone UI-E-E1-ajw-b-16-0-UI 5, mRNA sequence		7.36	7.98	0.62	3.36
ILMN_1656761	TGIF1	TGFB-induced factor homeobox 1 (TGIF1), transcript variant 5, mRNA.	NM_173209.1	6.06	6.74	0.68	3.33
ILMN_2133534	SMA4	SMA4 (SMA4), mRNA.	NM_021652.2	8.39	7.8	-0.6	3.32
ILMN_1815102	LCAT	lecithin-cholesterol acyltransferase (LCAT), mRNA.	NM_000229.1	7.17	7.79	0.62	3.25
ILMN_1773154	NFKBIA	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (NFKBIA), mRNA.	NM_020529.1	11.27	10.71	-0.56	3.21
ILMN_1787251	DAAM1	dishevelled associated activator of morphogenesis 1 (DAAM1), mRNA.	NM_014992.1	12.14	13.05	0.9	3.2
ILMN_1661303	FLJ46309	hypothetical protein LOC649598 (FLJ46309), mRNA.	NM_001039797.1	6.52	5.99	-0.53	3.17
ILMN_1686261	TOM1L2	target of myb1-like 2 (chicken) (TOM1L2), transcript variant 3, mRNA.	NM_001082968.1	7.23	7.83	0.6	3.16
ILMN_1741159	MAP3K8	mitogen-activated protein kinase kinase kinase 8 (MAP3K8), mRNA.	NM_005204.2	7.79	7.14	-0.65	3.16
ILMN_1657996	LOC642035	PREDICTED: hypothetical protein LOC642035 (LOC642035), mRNA.	XM_936105.1	7.09	7.75	0.66	3.13
ILMN_1797704	LOC729252	PREDICTED: similar to Keratin, type I cytoskeletal 14 (Cytokeratin-14) (CK-14) (Keratin-14) (K14) (LOC729252), mRNA.	XR_015937.1	8.39	9.04	0.65	3.12
ILMN_2150258	ZFP36L2	zinc finger protein 36, C3H type-like 2 (ZFP36L2), mRNA.	NM_006887.3	8.21	9.04	0.82	3.1
ILMN_1738047	C10orf73	PREDICTED: chromosome 10 open reading frame 73 (C10orf73), mRNA.	XM_096317.11	6.66	6.12	-0.54	3.1
ILMN_1797372	C3orf58	chromosome 3 open reading frame 58 (C3orf58), mRNA.	NM_173552.2	8.61	7.84	-0.77	3.09
ILMN_1767377	LOC153561	hypothetical protein LOC153561 (LOC153561), mRNA.	NM_207331.2	7.42	6.83	-0.58	3.03
ILMN_1801307	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10), mRNA.	NM_003810.2	9.63	8.89	-0.74	2.99
ILMN_1685122	COL9A2	collagen, type IX, alpha 2 (COL9A2), mRNA.	NM_001852.3	6.13	6.65	0.52	2.95
ILMN_1879480		cDNA FLJ35319 fis, clone PROST2011577		7.37	6.72	-0.64	2.94
ILMN_1814494	SEMA6D	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D (SEMA6D), transcript variant 5, mRNA.	NM_153619.1	6.73	5.94	-0.79	2.88
ILMN_1722811	CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1) (CDKN1B), mRNA.	NM_004064.2	9.44	8.59	-0.85	2.86
ILMN_1751034	LOC162073	hypothetical protein LOC162073 (LOC162073), mRNA.	NM_001034841.2	11.77	12.32	0.54	2.85
ILMN_1769388	GJB2	gap junction protein, beta 2, 26kDa (GJB2), mRNA.	NM_004004.4	9.9	10.73	0.83	2.82
ILMN_1726678	HSPC047	HSPC047 protein (HSPC047), mRNA.	NM_014147.1	6.6	7.3	0.69	2.77
ILMN_1910908		RST24587 Athersys RAGE Library cDNA, mRNA sequence		6.23	6.74	0.52	2.76
ILMN_1735553	MAP3K9	mitogen-activated protein kinase kinase kinase 9 (MAP3K9), mRNA.	NM_033141.2	6.54	7.32	0.78	2.72
ILMN_1703913	DST	dystonin (DST), transcript variant 1e, mRNA.	NM_001723.4	9.42	8.8	-0.62	2.71
ILMN_1751346	ERBB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) (ERBB3), transcript variant 1, mRNA.	NM_001982.2	9.08	8.25	-0.84	2.7
ILMN_1662483	SMA5	SMA5 (SMA5), mRNA.	NM_021036.1	7.59	6.9	-0.69	2.64
ILMN_1768754	PILRB	paired immunoglobulin-like type 2 receptor beta (PILRB), transcript variant 1, mRNA.	NM_013440.3	9.84	9.23	-0.61	2.62
ILMN_1686988	ST5	suppression of tumorigenicity 5 (ST5), transcript variant 3, mRNA.	NM_213618.1	7.31	7.87	0.56	2.59
ILMN_2308338	BMF	Bcl2 modifying factor (BMF), transcript variant 4, mRNA.	NM_001003943.1	6.64	7.28	0.64	2.58
ILMN_1658798	MEGF9	multiple EGF-like domains 9 (MEGF9), mRNA.	NM_001080497.1	6.83	7.4	0.57	2.58
ILMN_1671854	01_Sep	PREDICTED: septin 1, transcript variant 3 (SEPT1), mRNA.	XM_944593.1	7.19	6.63	-0.56	2.58
ILMN_2228732	CCNG2	cyclin G2 (CCNG2), mRNA.	NM_004354.1	9.19	8.58	-0.61	2.57
ILMN_2075927	STK40	serine/threonine kinase 40 (STK40), mRNA.	NM_032017.1	10.15	10.7	0.56	2.53
ILMN_1681118	CAPRIN2	caprin family member 2 (CAPRIN2), transcript variant 1, mRNA.	NM_001002259.1	8.06	8.62	0.56	2.53
ILMN_1814106	MGC59937	Similar to RIKEN cDNA 2310002J15 gene (MGC59937), mRNA.	NM_199001.1	10.85	11.37	0.52	2.53
ILMN_1737715	OSR2	PREDICTED: odd-skipped related 2 (Drosophila) (OSR2), mRNA.	XM_001126824.1	7.46	6.64	-0.82	2.51
ILMN_2396875	IGFBP3	insulin-like growth factor binding protein 3 (IGFBP3), transcript variant 1, mRNA.	NM_001013398.1	9.67	9.15	-0.52	2.49
ILMN_1659990	HIG2	hypoxia-inducible protein 2 (HIG2), transcript variant 1, mRNA.	NM_013332.3	7.61	6.82	-0.79	2.46
ILMN_2350574	MYADM	myeloid-associated differentiation marker (MYADM), transcript variant 2, mRNA.	NM_138373.3	7.18	7.85	0.67	2.45
ILMN_1836776		cDNA FLJ34018 fis, clone FCBBF2002801		7.9	8.45	0.56	2.41
ILMN_1765641	SEMA3A	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (SEMA3A), mRNA.	NM_006080.2	9.3	8.77	-0.53	2.4
ILMN_1778668	TAGLN	transgelin (TAGLN), transcript variant 2, mRNA.	NM_003186.3	8.79	9.37	0.58	2.39
ILMN_1718934	LOC728499	PREDICTED: similar to Nuclear envelope pore membrane protein POM 121 (Pore membrane protein of 121 kDa) (P145) (LOC728499), mRNA.	XM_001127568.1	9.24	8.59	-0.65	2.38
ILMN_1657749	CYP27C1	cytochrome P450, family 27, subfamily C, polypeptide 1 (CYP27C1), mRNA.	NM_001001665.2	7.49	8.14	0.65	2.34
ILMN_1780172	C20orf195	chromosome 20 open reading frame 195 (C20orf195), mRNA.	NM_024059.2	6.6	7.19	0.6	2.34
ILMN_1746436	HCG27	HLA complex group 27 (HCG27), mRNA.	NM_181717.2	6.92	6.4	-0.52	2.25
ILMN_2193706	HRK	harakiri, BCL2 interacting protein (contains only BH3 domain) (HRK), mRNA.	NM_003806.1	7.58	8.16	0.58	2.18
ILMN_1680618	MYC	v-myc myelocytomatosis viral oncogene homolog (avian) (MYC), mRNA.	NM_002467.3	10.88	11.45	0.57	2.18
ILMN_1765122	MAP3K2	PREDICTED: mitogen-activated protein kinase kinase kinase 2 (MAP3K2), mRNA.	XM_001128799.1	9.35	9.89	0.54	2.18
ILMN_1716089	KANK2	KN motif and ankyrin repeat domains 2 (KANK2), mRNA.	NM_015493.4	7.32	7.91	0.59	2.16
ILMN_2410421	NBPF1	neuroblastoma breakpoint family, member 1 (NBPF1), mRNA. XM_934962 XM_934964 XM_934966 XM_934967 XM_934969	NM_017940.2	7.9	7.25	-0.65	2.14
ILMN_1807093	FLJ45248	FLJ45248 protein (FLJ45248), mRNA.	NM_207505.1	6.21	6.8	0.59	2.13
ILMN_2345739	CAPRIN2	caprin family member 2 (CAPRIN2), transcript variant 2, mRNA.	NM_023925.3	7.89	8.51	0.61	2.12
ILMN_2290118	MEGF9	multiple EGF-like domains 9 (MEGF9), mRNA.	NM_001080497.1	7.82	8.62	0.79	2.09
ILMN_1810942	CYP3A5	cytochrome P450, family 3, subfamily A, polypeptide 5 (CYP3A5), mRNA.	NM_000777.2	6.6	6.03	-0.57	2.08
ILMN_1739241	CHAC1	ChaC, cation transport regulator homolog 1 (E. coli) (CHAC1), mRNA.	NM_024111.2	7.24	7.92	0.67	2.02