

Supplement 2: TGF β Signature - significantly regulated genes upon 4h TGF β stimulation of HaCaT cells

illumina Identifier	HGNC gene symbol	Gene Description	Refseq ID	UT 4h	UT+TGF β 4h	LR +/- TGF β 4h	-log10 pVAL LR +/- TGF β 4h
ILMN 1744381	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 (SERPINE1), mRNA.	NM_000602.1	7.11	12.23	5.13	43.08
ILMN 1667295	VASN	vasorin (VASN), mRNA.	NM_138440.2	6.67	10.08	3.41	37.51
ILMN 2309156	PMPEA1	prostate transmembrane protein, androgen induced 1 (PMPEA1), transcript variant 2, mRNA.	NM_199169.1	8.78	12.16	3.38	36.26
ILMN 1776936	ANKRD38	ankyrin repeat domain 38 (ANKRD38), mRNA.	NM_181712.3	6.42	9.91	3.49	34.13
ILMN 1734276	PMPEA1	prostate transmembrane protein, androgen induced 1 (PMPEA1), transcript variant 2, mRNA.	NM_199169.1	9.72	13.18	3.46	33.82
ILMN 1721770	PAPPA	pregnancy-associated plasma protein A, pappalysin 1 (PAPPA), mRNA.	NM_002581.3	7.1	10.79	3.7	32.96
ILMN 1705750	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM2), transcript variant 1, mRNA.	NM_004613.2	6.53	10.48	3.95	31.97
ILMN 1749414	MGC4294	PREDICTED: hypothetical protein MGC4294 (MGC4294), misc RNA.	XR_017834.1	5.87	8.28	2.42	31.5
ILMN 1699829	CTGF	connective tissue growth factor (CTGF), mRNA.	NM_001901.1	6.89	10.36	3.46	30.21
ILMN 1713751	ADAM19	ADAM metalloproteinase domain 19 (meltrin beta) (ADAM19), transcript variant 2, mRNA.	NM_033274.2	8.43	11.84	3.41	30.1
ILMN 2115125	CTGF	connective tissue growth factor (CTGF), mRNA.	NM_001901.2	7.03	10.12	3.09	29.68
ILMN 1741847	MMP10	matrix metalloproteinase 10 (stromelysin 2) (MMP10), mRNA.	NM_002425.1	8.2	11.15	2.95	28.44
ILMN 1655595	SERPINE2	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2 (SERPINE2), mRNA.	NM_006216.2	12.65	14.53	1.88	27.98
ILMN 1769201	ELF3	E74-like factor 3 (ets domain transcription factor, epithelial-specific) (ELF3), mRNA.	NM_004433.3	9.63	6.66	-2.97	26.98
ILMN 1651950	TPST1	tyrosylprotein sulfotransferase 1 (TPST1), mRNA.	NM_003596.2	7.91	9.87	1.96	26.95
ILMN 1705231	SLOC2A1	solute carrier organic anion transporter family, member 2A1 (SLOC2A1), mRNA.	NM_005630.1	7.58	10.29	2.71	26.81
ILMN 2399300	NAV2	neuron navigator 2 (NAV2), transcript variant 2, mRNA.	NM_145117.3	8.63	11.34	2.71	26.64
ILMN 1772824	WNT5B	wingless-type MMTV integration site family, member 5B (WNT5B), transcript variant 1, mRNA.	NM_032642.2	6.76	9.04	2.28	26.16
ILMN 1864372		BX097797 Soares pregnant uterus NbHPU cDNA clone IMAGp98N171164, mRNA sequence		7.34	10.15	2.8	25.66
ILMN 2203891	SMAD7	SMAD family member 7 (SMAD7), mRNA.	NM_005904.2	7.69	9.64	1.95	25.49
ILMN 1736190	CYP4F3	cytochrome P450, family 4, subfamily F, polypeptide 3 (CYP4F3), mRNA.	NM_000896.1	9.96	7.68	-2.28	24.41
ILMN 2376723	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) (CDKN2B), transcript variant 2, mRNA.	NM_078487.2	9.58	11.88	2.3	24.25
ILMN 1797875	ALOX5AP	arachidonate 5-lipoxygenase-activating protein (ALOX5AP), mRNA.	NM_001629.2	5.89	8.11	2.22	23.7
ILMN 1712475	HS3ST2	heparan sulfate (glucosamine) 3-O-sulfotransferase 2 (HS3ST2), mRNA.	NM_006043.1	9.33	11.61	2.28	23.3
ILMN 2174711	C21orf129	chromosome 21 open reading frame 129 (C21orf129), mRNA.	NM_152506.1	8.77	6.81	-1.96	22.9
ILMN 1679391	MAMDC2	MAM domain containing 2 (MAMDC2), mRNA.	NM_153267.3	8.55	10.6	2.06	22.43
ILMN 1655740	SNAI2	snail homolog 2 (Drosophila) (SNAI2), mRNA.	NM_003068.3	9.13	11.17	2.03	22.43
ILMN 2188722	GLS	glutaminase (GLS), mRNA.	NM_014905.2	9.82	11.62	1.79	22.27
ILMN 1775380	SMOX	spermine oxidase (SMOX), transcript variant 4, mRNA.	NM_175842.1	9.37	11.01	1.64	22.27
ILMN 1766650	FOXA1	forkhead box A1 (FOXA1), mRNA.	NM_004496.2	11.81	9.51	-2.29	22.08
ILMN 1720158	ETS2	v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) (ETS2), mRNA.	NM_005239.4	9.08	10.81	1.73	22.08
ILMN 2399304	NAV2	neuron navigator 2 (NAV2), transcript variant 2, mRNA.	NM_145117.3	6.62	8.8	2.18	21.87
ILMN 1695604	DCBLD1	discoidin, CUB and LCCL domain containing 1 (DCBLD1), mRNA.	NM_173674.1	8.61	11.02	2.41	21.63
ILMN 1812926	ANTXR2	anthrax toxin receptor 2 (ANTXR2), mRNA.	NM_058172.3	7.54	9.82	2.29	21.49
ILMN 1768534	BHLHB2	basic helix-loop-helix domain containing, class B, 2 (BHLHB2), mRNA.	NM_003670.1	9.01	10.97	1.95	21.36
ILMN 2315979	LBH	limb bud and heart development homolog (mouse) (LBH), mRNA.	NM_030915.1	7.36	9.64	2.28	21.32
ILMN 1701424	LAMC2	laminin, gamma 2 (LAMC2), transcript variant 1, mRNA.	NM_005562.1	11.18	12.87	1.69	21.01
ILMN 1723198	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) (CDKN2B), transcript variant 1, mRNA.	NM_004936.3	8.49	10.73	2.23	20.64
ILMN 1698666	CST6	cystatin E/M (CST6), mRNA.	NM_001323.2	6.35	8.19	1.85	20.59
ILMN 1752810	LARP6	La ribonucleoprotein domain family, member 6 (LARP6), transcript variant 1, mRNA.	NM_018357.2	9.13	10.9	1.76	20.57
ILMN 1746502	LOC399978	PREDICTED: hypothetical LOC399978 (LOC399978), mRNA.	XM_944623.2	6.21	8.98	2.78	20.5
ILMN 1714433	MARCKSL1	MARCKS-like 1 (MARCKSL1), mRNA.	NM_023009.4	8.71	10.1	1.39	20.48
ILMN 2044645	CGB1	chorionic gonadotropin, beta polypeptide 1 (CGB1), mRNA.	NM_033377.1	7.4	9.42	2.01	20.47
ILMN 1812526	TGF β 2	transforming growth factor, beta 2 (TGF β 2), mRNA.	NM_003238.1	5.83	7.9	2.07	20.42
ILMN 1729161	NOTCH1	Notch homolog 1, translocation-associated (Drosophila) (NOTCH1), mRNA.	NM_017617.3	11.98	10.14	-1.84	20.41
ILMN 2367258	SMOX	spermine oxidase (SMOX), transcript variant 2, mRNA.	NM_175840.1	7.83	9.59	1.76	20.34
ILMN 2400644	SRGAP3	SLIT-ROBO Rho GTPase activating protein 3 (SRGAP3), transcript variant 2, mRNA.	NM_001033117.1	9.21	7.19	-2.02	20.16
ILMN 2163790	CGB5	chorionic gonadotropin, beta polypeptide 5 (CGB5), mRNA.	NM_033043.1	6.62	8.81	2.19	20.16
ILMN 1659610	TJP3	tight junction protein 3 (zona occludens 3) (TJP3), mRNA.	NM_014428.1	9.5	7.44	-2.06	19.93
ILMN 1777233	E2F2	E2F transcription factor 2 (E2F2), mRNA.	NM_004091.2	11.11	9.37	-1.74	19.52
ILMN 1679754	ADRA1B	adrenergic, alpha-1B-, receptor (ADRA1B), mRNA.	NM_000679.3	6.65	8.95	2.3	19.52
ILMN 2405305	ARNTL	aryl hydrocarbon receptor nuclear translocator-like (ARNTL), transcript variant 2, mRNA.	NM_001030272.1	7.55	9.43	1.87	19.52
ILMN 1657823	PMPEA1	prostate transmembrane protein, androgen induced 1 (PMPEA1), transcript variant 1, mRNA.	NM_020182.3	6.21	8.29	2.08	19.38
ILMN 1769615	FLRT2	fibronectin leucine rich transmembrane protein 2 (FLRT2), mRNA.	NM_013231.4	6.22	8.35	2.13	19.02
ILMN 1830462	XYLT1	xylosyltransferase 1 (XYLT1), mRNA.	NM_022166.3	5.89	7.63	1.73	18.87
ILMN 1892643		RST11549 Athersys RAGE Library cDNA, mRNA sequence		7.96	9.84	1.87	18.77
ILMN 1713744	C14orf132	chromosome 14 open reading frame 132 (C14orf132), mRNA.	NM_020215.2	7.75	6.29	-1.46	18.6
ILMN 1806907	PAWR	PRKC, apoptosis, WT1, regulator (PAWR), mRNA.	NM_002583.2	10.68	11.97	1.28	18.6
ILMN 1664861	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein (ID1), transcript variant 2, mRNA.	NM_181353.1	11.36	9.61	-1.75	18.53
ILMN 1760247	CD70	CD70 molecule (CD70), mRNA.	NM_001252.3	8.45	6.98	-1.47	18.36
ILMN 1691376	JAG1	jagged 1 (Alagille syndrome) (JAG1), mRNA.	NM_000214.1	9.72	11.03	1.31	18.36
ILMN 1810000	RDH16	retinol dehydrogenase 16 (all-trans) (RDH16), mRNA.	NM_003708.3	6.45	8.75	2.31	18.36
ILMN 1704418	FOXD1	forkhead box D1 (FOXO1), mRNA.	NM_004472.2	9.19	10.79	1.6	18.35
ILMN 1672102	PTPRB	protein tyrosine phosphatase, receptor type, B (PTPRB), mRNA.	NM_002837.2	7.38	9.03	1.65	18.35
ILMN 1719695	NFKBIZ	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta (NFKBIZ), transcript variant 2, mRNA.	NM_001005474.1	10.6	9.06	-1.55	18.28
ILMN 1682775	EDN1	endothelin 1 (EDN1), mRNA.	NM_001955.2	6.94	8.77	1.83	18.27
ILMN 2406035	LAMA3	laminin, alpha 3 (LAMA3), transcript variant 1, mRNA.	NM_198129.1	11.25	12.96	1.72	18.23
ILMN 1720513	SETBP1	SET binding protein 1 (SETBP1), mRNA.	NM_015559.1	8.41	9.8	1.39	18.01
ILMN 1704247	LAMA3	laminin, alpha 3 (LAMA3), transcript variant 2, mRNA.	NM_000227.2	9.99	8.54	1.55	17.74
ILMN 1805665	FLRT3	fibronectin leucine rich transmembrane protein 3 (FLRT3), transcript variant 2, mRNA.	NM_198391.1	6.44	10.89	1.45	17.46
ILMN 2203896	SMAD7	SMAD family member 7 (SMAD7), mRNA.	NM_005904.2	7.17	9.23	2.06	17.46
ILMN 2082585	SNAI2	snail homolog 2 (Drosophila) (SNAI2), mRNA.	NM_003068.3	10.53	12.36	1.83	17.46
ILMN 1781745	C9orf152	chromosome 9 open reading frame 152 (C9orf152), mRNA.	NM_001012993.1	7.69	6.02	-1.66	17.45
ILMN 1706519	LAMC2	laminin, gamma 2 (LAMC2), transcript variant 2, mRNA.	NM_018891.1	7.37	9.71	2.34	17.43
ILMN 1723123	FGFR3	fibroblast growth factor receptor 3 (achondroplasia, thanatophoric dwarfism) (FGFR3), transcript variant 2, mRNA.	NM_022965.1	12.28	10.81	-1.47	17.28
ILMN 1702487	SGK	serum/glucocorticoid regulated kinase (SGK), mRNA.	NM_005627.2	9.48	11.06	1.58	17.15
ILMN 1685339	TPM1	tropomyosin 1 (alpha) (TPM1), transcript variant 6, mRNA.	NM_001018008.1	7.34	9	1.67	16.98
ILMN 2278152	TPM1	tropomyosin 1 (alpha) (TPM1), transcript variant 6, mRNA.	NM_001018008.1	7.33	9.12	1.79	16.98
ILMN 1697733	CST6	PREDICTED: cystatin E/M (CST6), mRNA.	XM_001129442.1	6.19	7.95	1.76	16.91
ILMN 1759232	IRS1	insulin receptor substrate 1 (IRS1), mRNA.	NM_005544.1	7.42	9.02	1.61	16.77
ILMN 1796316	MMP9	matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) (MMP9), mRNA.	NM_004994.2	6.29	8.32	2.04	16.64
ILMN 1669819	LOC402569	PREDICTED: similar to importin alpha 1b (LOC402569), misc RNA.	XR_015714.1	6.01	7.68	1.67	16.58
ILMN 1716608	NGF	nerve growth factor (beta polypeptide) (NGF), mRNA.	NM_002506.2	6.44	7.84	1.39	16.56
ILMN 1730575	GCLC	glutamate-cysteine ligase, catalytic subunit (GCLC), mRNA.	NM_001498.2	10.52	8.9	-1.61	16.41
ILMN 1784287	TGFB β 3	transforming growth factor, beta receptor III (TGFB β 3), mRNA.	NM_003243.2	8.43	6.78	-1.66	16.21
ILMN 1803593	WNT3	wingless-type MMTV integration site family, member 3 (WNT3), mRNA.	NM_030753.3	8.28	9.99	1.72	16.06
ILMN 1653028	COL4A1	collagen, type IV, alpha 1 (COL4A1), mRNA.	NM_001845.4	9.88	11.2	1.32	16.05
ILMN 1730670	FSTL3	folliculin-like 3 (secreted glycoprotein) (FSTL3), mRNA.	NM_005860.2	8.54	10.08	1.54	15.91
ILMN 1663401	LARP6	La ribonucleoprotein domain family, member 6 (LARP6), transcript variant 2, mRNA.	NM_197958.1	9.91	11.16	1.25	15.9
ILMN 1668411	FHL2	four and a half LIM domains 2 (FHL2), transcript variant 4, mRNA.	NM_201557.2	10.8	11.96	1.16	15.88
ILMN 1718387	LOR	loricrin (LOR), mRNA.	NM_000427.1	5.94	7.53	1.58	15.84
ILMN 1665792	ITGA2	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor) (ITGA2), mRNA.	NM_002203.3	9.56	11.38	1.82	15.77
ILMN 1688892	LAMA3	laminin, alpha 3 (LAMA3), transcript variant 1, mRNA.	NM_198129.1	9.86	11.45	1.59	15.73
ILMN 1713995	SCNN1A	sodium channel, nonvoltage-gated 1 alpha (SCNN1A), mRNA.	NM_001038.4	10.84	9.32	-1.51	15.62
ILMN 2365465	XBP1	X-box binding protein 1 (XBP1), transcript variant 2, mRNA.	NM_001079599.1	11.41	12.48	1.07	15.55
ILMN 1718977	GADD45B	growth arrest and DNA-damage-inducible, beta (GADD45B), mRNA.	NM_015675.2	6.87	8.5	1.62	15.49
ILMN 1701204	VEGFC	vascular endothelial growth factor C (VEGFC), mRNA.	NM_005429.2	7.03	8.48	1.45	15.48
ILMN 1812297	CYP26B1	cytochrome P450, family 26, subfamily B, polypeptide 1 (CYP26B1), mRNA.	NM_019885.2	9.25	10.51	1.26	15.38
ILMN 1692754	TMEM49	transmembrane protein 49 (TMEM49), mRNA.	NM_030938.2	10.86	12.21	1.35	15.32
ILMN 1790577	SLC35F2	solute carrier family 35, member F2 (SLC35F2), mRNA.	NM_017515.3	9.29	10.47	1.18	15.32
ILMN 1733831	PGBD5	piggyBac transposable element derived 5 (PGBD5), mRNA.	NM_024554.2	6.07	7.89	1.82	15.31
ILMN 1676728	DLK2	delta-like 2 homolog (Drosophila) (DLK2), transcript variant 2, mRNA.	NM_206539.1	10.81	9.68	-1.13	15.3
ILMN 1801504	RUNX1	runx-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene) (RUNX1), transcript variant 1, mRNA.	NM_001754.3	9.6	10.89	1.29	15.1

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ILMN_1849033		Homo sapiens, clone IMAGE:5403381, mRNA		6.36	7.79	1.43	15.06
ILMN_1663866	TGFB1	transforming growth factor, beta-induced, 68kDa (TGFB1), mRNA.	NM_000358.1	13.93	15.1	1.18	15.03
ILMN_1785404	FGFBP1	fibroblast growth factor binding protein 1 (FGFBP1), mRNA.	NM_005130.3	12.59	11.47	-1.12	15
ILMN_1788131	CYP26A1	cytochrome P450, family 26, subfamily A, polypeptide 1 (CYP26A1), transcript variant 2, mRNA.	NM_057157.1	7.44	6.04	-1.4	14.81
ILMN_1658094	ZNF365	zinc finger protein 365 (ZNF365), transcript variant A, mRNA.	NM_014951.2	9.39	10.8	1.41	14.72
ILMN_1693912	SLC47A2	solute carrier family 47, member 2 (SLC47A2), transcript variant 1, mRNA.	NM_152908.3	10.13	8.49	-1.64	14.7
ILMN_1752932	MPZL2	myelin protein zero-like 2 (MPZL2), transcript variant 1, mRNA.	NM_005797.2	12.72	11.48	-1.24	14.69
ILMN_1689431	APCDD1L	adenomatous polyposis coli down-regulated 1-like (APCDD1L), mRNA.	NM_153360.1	8.11	9.72	1.61	14.61
ILMN_1804662	NRG4	neuregulin 4 (NRG4), mRNA.	NM_138573.2	9.59	8.32	-1.27	14.58
ILMN_1700042	TLN2	talin 2 (TLN2), mRNA.	NM_015059.1	6.81	8.68	1.87	14.56
ILMN_1816174		cDNA clone IMAGE:5261489		8.99	7.2	-1.79	14.55
ILMN_1298878	INPP4B	inositol polyphosphate-4-phosphatase, type II, 105kDa (INPP4B), mRNA.	NM_003866.1	9.42	10.81	1.39	14.47
ILMN_1676663	TNFRSF11B	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) (TNFRSF11B), mRNA.	NM_002546.3	7.26	9.04	1.77	14.47
ILMN_1651826	BASP1	brain abundant, membrane attached signal protein 1 (BASP1), mRNA.	NM_006317.3	7.94	9.58	1.64	14.44
ILMN_1680018	RIPK4	receptor-interacting serine-threonine kinase 4 (RIPK4), mRNA.	NM_020639.2	9.62	8.34	-1.28	14.29
ILMN_1811468	IRX3	iroquois homeobox 3 (IRX3), mRNA.	NM_024336.1	13.15	12.13	-1.02	14.29
ILMN_1874689		primary neuroblastoma cDNA, clone:Nbla10527, full insert sequence		10.24	11.65	1.42	14.29
ILMN_1811470	PLEK2	pleckstrin 2 (PLEK2), mRNA.	NM_016445.1	9.58	11.03	1.45	14.23
ILMN_1706531	ABCC5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (ABCC5), transcript variant 1, mRNA.	NM_005688.2	11.44	10.15	-1.29	14.19
ILMN_2357134	SPHK1	sphingosine kinase 1 (SPHK1), transcript variant 1, mRNA.	NM_021972.2	7.02	8.43	1.41	14.15
ILMN_1902308	AGENCOURT	13567612 NIH MGC 184 cDNA clone IMAGE:30326575 5, mRNA sequence		9.8	11.36	1.56	14.13
ILMN_1699856	RALGDS	ral guanine nucleotide dissociation stimulator (RALGDS), transcript variant 1, mRNA.	NM_006266.2	12.46	11.2	-1.26	13.83
ILMN_1790317	RAB26	RAB26, member RAS oncogene family (RAB26), mRNA.	NM_014353.4	9.22	7.7	-1.52	13.8
ILMN_1709750	SUSD1	sushi domain containing 1 (SUSD1), mRNA.	NM_022486.3	8.06	9.15	1.1	13.8
ILMN_1810604	ELMOD1	ELMO/CEP-12 domain containing 1 (ELMOD1), mRNA.	NM_018712.2	6.27	7.52	1.25	13.76
ILMN_1736834	SKIL	SKI-like oncogene (SKIL), mRNA.	NM_005414.2	6.63	8.44	1.81	13.73
ILMN_2328094	DACT1	dapper, antagonist of beta-catenin, homolog 1 (Xenopus laevis) (DACT1), transcript variant 1, mRNA.	NM_016651.5	5.99	7.39	1.4	13.6
ILMN_1696585	FERMT1	fermitin family homolog 1 (Drosophila) (FERMT1), mRNA.	NM_017671.4	10.99	12.35	1.36	13.6
ILMN_1795298	GPER	G protein-coupled estrogen receptor 1 (GPER), transcript variant 3, mRNA.	NM_001039966.1	8.39	6.97	-1.42	13.47
ILMN_1672022	EPHA4	EPH receptor A4 (EPHA4), mRNA.	NM_004438.3	7.42	9	1.58	13.47
ILMN_1786470	C1orf74	chromosome 1 open reading frame 74 (C1orf74), mRNA.	NM_152485.2	8.66	9.71	1.06	13.45
ILMN_1718607	TSPAN4	tetraspanin 4 (TSPAN4), transcript variant 3, mRNA.	NM_001025235.1	8.97	10.35	1.39	13.44
ILMN_1881514		cDNA FLJ36847 fis, clone ASTRO2013671		7.43	8.61	1.17	13.4
ILMN_1724686	CLDN1	claudin 1 (CLDN1), mRNA.	NM_021101.3	13.73	12.18	-1.55	13.39
ILMN_1743619	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 (NEDD9), transcript variant 2, mRNA.	NM_182966.2	6.52	7.8	1.28	13.33
ILMN_2199389	VIPR1	vasoactive intestinal peptide receptor 1 (VIPR1), mRNA.	NM_004624.2	8.24	9.61	1.37	13.29
ILMN_1660794	LBH	PREDICTED: hypothetical protein DKFZp566j091 (LBH), mRNA.	XM_001132517.1	6.14	7.55	1.41	13.28
ILMN_2115005	FGD2	FYVE, RhoGEF and PH domain containing 2 (FGD2), mRNA.	NM_173558.2	6.59	8.12	1.52	13.27
ILMN_1764201	MAP2	microtubule-associated protein 2 (MAP2), transcript variant 2, mRNA.	NM_031845.2	6.8	8.21	1.41	13.27
ILMN_1677636	COMP	cartilage oligomeric matrix protein (COMP), mRNA.	NM_000095.2	5.67	7.11	1.44	13.22
ILMN_1759598	DLX5	distal-less homeobox 5 (DLX5), mRNA.	NM_005221.5	7.66	8.83	1.17	13.21
ILMN_1790338	PRRX2	paired related homeobox 2 (PRRX2), mRNA.	NM_016307.3	5.91	7.39	1.48	13.21
ILMN_1664016	ARHGEF18	rho/rac guanine nucleotide exchange factor (GEF) 18 (ARHGEF18), mRNA.	NM_015318.2	11.76	12.7	0.94	13.21
ILMN_1726893	EPN3	epsin 3 (EPN3), mRNA.	NM_017957.1	8.84	7.22	-1.63	13.08
ILMN_1699695	TNFRSF21	tumor necrosis factor receptor superfamily, member 21 (TNFRSF21), mRNA.	NM_014452.3	11.28	12.71	1.42	13.08
ILMN_1689306	TMC7	transmembrane channel-like 7 (TMC7), mRNA.	NM_024847.2	7.28	8.53	1.26	12.96
ILMN_2330787	FRMD6	FERM domain containing 6 (FRMD6), transcript variant 2, mRNA.	NM_152330.3	9.78	10.94	1.17	12.9
ILMN_1713952	C1orf106	chromosome 1 open reading frame 106 (C1orf106), mRNA.	NM_018265.1	11.08	12.23	1.15	12.89
ILMN_1705442	CMTM3	CKLF-like MARVEL transmembrane domain containing 3 (CMTM3), transcript variant 1, mRNA.	NM_144601.2	8.39	9.54	1.15	12.83
ILMN_2414325	TNFAIP8	tumor necrosis factor, alpha-induced protein 8 (TNFAIP8), transcript variant 2, mRNA.	NM_001077654.1	8.63	9.79	1.16	12.77
ILMN_1651365	ZBED2	zinc finger, BED-type containing 2 (ZBED2), mRNA.	NM_024508.3	10.42	11.55	1.12	12.71
ILMN_1676413	VSNL1	visinin-like 1 (VSNL1), mRNA.	NM_003385.4	10.09	8.99	-1.1	12.71
ILMN_1789846	ITGB6	integrin, beta 6 (ITGB6), mRNA.	NM_000888.3	6.03	7.64	1.61	12.68
ILMN_1745623	EFCAB4A	EF-hand calcium binding domain 4A (EFCAB4A), mRNA.	NM_173584.3	8.84	9.87	1.04	12.62
ILMN_1797776	PRSS23	protease, serine, 23 (PRSS23), mRNA.	NM_007173.4	9.51	10.73	1.21	12.57
ILMN_1812073	ATP6V1B1	ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B1 (Renal tubular acidosis with deafness) (ATP6V1B1), mRNA.	NM_001692.3	10.85	8.86	-2	12.56
ILMN_1735052	ULK1	unc-51-like kinase 1 (C. elegans) (ULK1), mRNA.	NM_003565.1	11.82	12.84	1.02	12.48
ILMN_1685663	CYP24A1	cytochrome P450, family 24, subfamily A, polypeptide 1 (CYP24A1), nuclear gene encoding mitochondrial protein, mRNA.	NM_000782.3	5.6	6.63	1.03	12.38
ILMN_1677432	SRGAP1	SLIT-ROBO Rho GTPase activating protein 1 (SRGAP1), mRNA.	NM_020762.1	8.55	9.78	1.22	12.38
ILMN_1801216	S100P	S100 calcium binding protein P (S100P), mRNA.	NM_005980.2	8.27	9.71	1.44	12.36
ILMN_1706505	COL5A1	collagen, type V, alpha 1 (COL5A1), mRNA.	NM_000093.3	6.73	8.1	1.37	12.32
ILMN_2388397	LYPD1	LY6/PLAUR domain containing 1 (LYPD1), transcript variant 2, mRNA.	NM_001077427.2	7.54	8.67	1.13	12.22
ILMN_1663092	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2 (CITED2), mRNA.	NM_006079.3	9.12	7.87	-1.25	12.21
ILMN_1684554	COL16A1	collagen, type XVI, alpha 1 (COL16A1), mRNA.	NM_001856.3	8.49	9.54	1.05	12.14
ILMN_1799848	ANKRD22	ankyrin repeat domain 22 (ANKRD22), mRNA.	NM_144590.2	8.33	6.72	-1.61	12.13
ILMN_2205963	C10orf54	chromosome 10 open reading frame 54 (C10orf54), mRNA.	NM_022153.1	10	8.99	-1.01	12.13
ILMN_2355831	FHL2	four and a half LIM domains 2 (FHL2), transcript variant 2, mRNA.	NM_201555.1	11.88	12.88	1.01	12.02
ILMN_2362902	RASSF5	Ras association (RalGDS/AF-6) domain family member 5 (RASSF5), transcript variant 2, mRNA.	NM_182664.2	9.34	8.05	-1.28	12
ILMN_1796925	CXADR	coxsackievirus and adenovirus receptor (CXADR), mRNA.	NM_001338.3	10.46	9.22	-1.23	11.88
ILMN_1795285	PHF15	PHD finger protein 15 (PHF15), mRNA.	NM_015288.4	8.93	7.71	-1.22	11.88
ILMN_2132599	ANKRD22	ankyrin repeat domain 22 (ANKRD22), mRNA.	NM_144590.1	8.8	7.19	-1.61	11.86
ILMN_1746085	IGFBP3	insulin-like growth factor binding protein 3 (IGFBP3), transcript variant 2, mRNA.	NM_000598.4	10.44	9.52	-0.92	11.85
ILMN_1719543	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian) (MAF), transcript variant 1, mRNA.	NM_005360.3	7.91	9.09	1.18	11.84
ILMN_1686116	THBS1	thrombospondin 1 (THBS1), mRNA.	NM_003246.2	11.1	12.8	1.7	11.8
ILMN_1653836	C11orf41	chromosome 11 open reading frame 41 (C11orf41), mRNA.	NM_012194.1	6.41	7.47	1.06	11.76
ILMN_1700024	UST	uronyl-2-sulfotransferase (UST), mRNA.	NM_005715.1	7.96	6.78	-1.18	11.72
ILMN_1753439	RPTN	PREDICTED: repetin (RPTN), mRNA.	XM_937200.2	6.73	8.04	1.31	11.72
ILMN_2384056	GPER	G protein-coupled estrogen receptor 1 (GPER), transcript variant 3, mRNA.	NM_001039966.1	8.35	6.94	-1.41	11.67
ILMN_1711894	MYB	v-myb myeloblastosis viral oncogene homolog (avian) (MYB), mRNA.	NM_005375.2	7.42	6.24	-1.18	11.67
ILMN_1664912	IL11RA	interleukin 11 receptor, alpha (IL11RA), transcript variant 1, mRNA.	NM_004512.3	9.69	8.58	-1.12	11.52
ILMN_1668863	LYPD1	LY6/PLAUR domain containing 1 (LYPD1), transcript variant 1, mRNA.	NM_144586.5	8.15	9.58	1.44	11.52
ILMN_2327860	MAL	mal, T-cell differentiation protein (MAL), transcript variant d, mRNA.	NM_022440.1	10.46	8.59	-1.88	11.51
ILMN_1705144	ULK1	unc-51-like kinase 1 (C. elegans) (ULK1), mRNA.	NM_003565.1	11.79	12.83	1.04	11.51
ILMN_2091347	IDH1	isocitrate dehydrogenase 1 (NADP+), soluble (IDH1), mRNA.	NM_005896.2	11.53	10.57	-0.97	11.38
ILMN_1784300	TUBA4A	tubulin, alpha 4a (TUBA4A), mRNA.	NM_006000.1	11.34	12.34	1	11.35
ILMN_1699631	GATS	opposite strand transcription unit to STAG3 (GATS), mRNA.	NM_178831.4	9.01	7.79	-1.22	11.34
ILMN_1759676	HOXC13	homeobox C13 (HOXC13), mRNA.	NM_017410.2	10.74	9.61	-1.13	11.34
ILMN_1688480	CCND1	cyclin D1 (CCND1), mRNA.	NM_005306.2	13.05	13.98	0.93	11.34
ILMN_1808220	LCE3E	late cornified envelope 3E (LCE3E), mRNA.	NM_178435.2	5.71	6.92	1.21	11.32
ILMN_1743130	PTGFRN	prostaglandin F2 receptor negative regulator (PTGFRN), mRNA.	NM_020440.2	9.8	10.86	1.06	11.32
ILMN_2405254	GRB7	growth factor receptor-bound protein 7 (GRB7), transcript variant 2, mRNA.	NM_001030002.1	9.18	8.08	-1.1	11.25
ILMN_2142353	GRTF1	growth hormone regulated TBC protein 1 (GRTF1), mRNA.	NM_024719.2	9.18	8.01	-1.17	11.25
ILMN_2082209	C20orf100	chromosome 20 open reading frame 100 (C20orf100), mRNA.	NM_032883.1	9.88	10.76	0.88	11.24
ILMN_1722089	RNF217	ring finger protein 217 (RNF217), mRNA.	NM_152553.2	7.87	9.22	1.35	11.22
ILMN_1736760	KRT16	keratin 16 (focal non-epidermolytic palmoplantar keratoderma) (KRT16), mRNA.	NM_005557.2	8.44	9.73	1.29	11.21
ILMN_1707695	IFIT1	interferon-induced protein with tetratricopeptide repeats 1 (IFIT1), transcript variant 2, mRNA.	NM_001548.3	9.15	7.67	-1.48	11.19
ILMN_1838691		BX116929 Soares_multiple_sclerosis_2NbHMSP cDNA clone IMAgp998E17622, mRNA sequence		7.75	9.04	1.29	11.1
ILMN_1737314	BCL6	B-cell CLL/lymphoma 6 (zinc finger protein 51) (BCL6), transcript variant 1, mRNA.	NM_001706.2	10.05	9.01	-1.04	11.07
ILMN_2153332	ATXN1	ataxin 1 (ATXN1), mRNA.	NM_000332.2	8.31	9.75	1.44	11.05
ILMN_1791328	STK39	serine threonine kinase 39 (STE20/SPS1 homolog, yeast) (STK39), mRNA.	NM_013233.2	10.67	9.79	-0.88	10.95
ILMN_1671365	PRODH	proline dehydrogenase (oxidase) 1 (PRODH), nuclear gene encoding mitochondrial protein, mRNA.	NM_016335.2	8.39	7.08	-1.31	10.93
ILMN_1703593	BAIAP2L1	BAI1-associated protein 2-like 1 (BAIAP2L1), mRNA.	NM_018842.3	10.4	11.3	0.89	10.92
ILMN_1712431	FAM113B	family with sequence similarity 113, member B (FAM113B), mRNA.	NM_138371.1	9.2	10.19	0.99	10.85

Supplement 2: TGFb Signature - significantly regulated genes upon 4h TGFb stimulation of HaCaT cells

illuina Identifier	HGNC gene symbol	Gene Description	Refseq ID	UT 4h	UT+TGFb 4h	LR +/- TGFb 4h	-log10 pVAL LR +/- TGFb 4h
ILMN_1769282	FRMD6	FERM domain containing 6 (FRMD6), mRNA.	NM_152330.2	11.3	12.41	1.11	10.81
ILMN_1748970	ATAD4	ATPase family, AAA domain containing 4 (ATAD4), mRNA.	NM_024320.2	9.08	7.77	-1.3	10.78
ILMN_1807767	KIAA0182	KIAA0182 (KIAA0182), mRNA.	NM_014615.1	9.92	9.07	-0.86	10.76
ILMN_1796335	LPCAT2	lysophosphatidylcholine acyltransferase 2 (LPCAT2), mRNA.	NM_017839.3	9.06	10.19	1.12	10.69
ILMN_1742461	UAP1	UDP-N-acetylglucosamine pyrophosphorylase 1 (UAP1), mRNA.	NM_003115.3	8.12	9.34	1.23	10.64
ILMN_2352090	GPRC5C	G protein-coupled receptor, family C, group 5, member C (GPRC5C), transcript variant 2, mRNA.	NM_018653.3	10.55	9.62	-0.93	10.62
ILMN_2261076	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 (NEDD9), transcript variant 1, mRNA.	NM_006403.2	7.9	9.19	1.29	10.57
ILMN_2308849	MYADM	myeloid-associated differentiation marker (MYADM), transcript variant 4, mRNA.	NM_01020820.1	10.58	11.71	1.13	10.53
ILMN_1682139	RAI14	retinoic acid induced 14 (RAI14), mRNA.	NM_015577.1	8.31	9.28	0.98	10.5
ILMN_1674135	RALGPS1	Ral GEF with PH domain and SH3 binding motif 1 (RALGPS1), mRNA.	NM_014636.1	10.21	9.04	-1.18	10.49
ILMN_1746243	TES	testis derived transcript (3 LIM domains) (TES), transcript variant 1, mRNA.	NM_015641.2	8.56	9.8	1.25	10.48
ILMN_2146761	FABP5	fatty acid binding protein 5 (psoriasis-associated) (FABP5), mRNA.	NM_001444.1	8.55	9.78	1.22	10.44
ILMN_1784608	CLEC2B	C-type lectin domain family 2, member B (CLEC2B), mRNA.	NM_005127.2	7.74	6.51	-1.23	10.33
ILMN_1715684	LAMB3	laminin, beta 3 (LAMB3), transcript variant 1, mRNA.	NM_000228.2	12.51	13.39	0.88	10.31
ILMN_2222880	SLC25A42	solute carrier family 25, member 42 (SLC25A42), mRNA.	NM_178526.1	9.07	8.26	-0.81	10.3
ILMN_1751464	TNFSF9	tumor necrosis factor (ligand) superfamily, member 9 (TNFSF9), mRNA.	NM_003811.2	8.11	6.92	-1.19	10.28
ILMN_2399919	MLXIP1	MLX interacting protein-like (MLXIP1), transcript variant 3, mRNA.	NM_032953.2	7.22	6.17	-1.05	10.23
ILMN_1679051	PTPRR	protein tyrosine phosphatase, receptor type, R (PTPRR), transcript variant 1, mRNA.	NM_002849.2	6.81	8.43	1.62	10.22
ILMN_1652762	HIC2	hypermethylated in cancer 2 (HIC2), mRNA.	NM_015094.2	9.74	8.78	-0.96	10.14
ILMN_1717326	SLC29A3	solute carrier family 29 (nucleoside transporters), member 3 (SLC29A3), mRNA.	NM_018344.3	8.62	7.59	-1.04	10.1
ILMN_1725946	IRF6	interferon regulatory factor 6 (IRF6), mRNA.	NM_006147.2	10.87	11.7	0.83	10.1
ILMN_1748685	TRIM31	tripartite motif-containing 31 (TRIM31), mRNA.	NM_007028.3	7.46	6.39	-1.06	10.02
ILMN_2169261	TNNI2	troponin I type 2 (skeletal, fast) (TNNI2), mRNA.	NM_003282.2	8.25	7.16	-1.09	10
ILMN_1676192	SLC13A5	solute carrier family 13 (sodium-dependent citrate transporter), member 5 (SLC13A5), mRNA.	NM_177550.2	5.85	7.07	1.22	9.98
ILMN_1872032		AGENCOURT_10400346 NIH_MGC_82 cDNA clone IMAGE:6616124 5, mRNA sequence		7.33	8.19	0.86	9.91
ILMN_1863962		BX116033 NCI CGAP Lu24 cDNA clone IMAGE:998A155622, mRNA sequence		7.93	6.84	-1.09	9.88
ILMN_2094396	LRR8C8	leucine rich repeat containing 8 family, member C (LRR8C8), mRNA.	NM_032270.2	7.54	9.07	1.53	9.84
ILMN_1679782	BLOC1S2	biogenesis of lysosome-related organelles complex-1, subunit 2 (BLOC1S2), transcript variant 2, mRNA.	NM_001001342.1	7.03	8.09	1.07	9.78
ILMN_2397028	SERPINB8	serpin peptidase inhibitor, clade B (ovalbumin), member 8 (SERPINB8), transcript variant 1, mRNA.	NM_002640.3	8.89	9.91	1.02	9.76
ILMN_1691410	BAMBI	BMP and activin membrane-bound inhibitor homolog (Xenopus laevis) (BAMBI), mRNA.	NM_012342.2	7.58	9.26	1.68	9.74
ILMN_1690064	RUNDC2C	RUN domain containing 2C (RUNDC2C) on chromosome 16.	NR_002939.2	7.54	8.67	1.13	9.74
ILMN_1673548	HSPC159	galectin-related protein (HSPC159), mRNA.	NM_014181.1	8.14	9.1	0.97	9.7
ILMN_1772686	FGD3	FYVE, RhoGEF and PH domain containing 3 (FGD3), transcript variant 2, mRNA.	NM_033086.2	8.03	6.94	-1.09	9.68
ILMN_1810942	CYP3A5	cytochrome P450, family 3, subfamily A, polypeptide 5 (CYP3A5), mRNA.	NM_000777.2	7.14	5.85	-1.29	9.68
ILMN_1693004	C20orf117	chromosome 20 open reading frame 117 (C20orf117), transcript variant 2, mRNA.	NM_199182.2	9.17	8.2	-0.97	9.67
ILMN_1690170	CRABP2	cellular retinoic acid binding protein 2 (CRABP2), mRNA.	NM_001878.2	9.84	8.83	-1.01	9.67
ILMN_1910908		RST24587 Athersys RAGE Library cDNA, mRNA sequence		6.09	7.11	1.03	9.66
ILMN_1815032	SOX7	SRY (sex determining region Y)-box 7 (SOX7), mRNA.	NM_031439.2	9.11	7.91	-1.2	9.63
ILMN_1738578	FILIP1L	filamin A interacting protein 1-like (FILIP1L), transcript variant 2, mRNA.	NM_014890.2	8.1	9.32	1.22	9.63
ILMN_1813704	KIAA1199	KIAA1199 (KIAA1199), mRNA.	NM_018689.1	7.48	8.68	1.19	9.63
ILMN_1788931	DOCK8	dedicator of cytokinesis 8 (DOCK8), mRNA.	NM_203447.1	7.04	5.92	-1.12	9.6
ILMN_1694106	GPD1L	glycerol-3-phosphate dehydrogenase 1-like (GPD1L), mRNA.	NM_015141.2	10.12	9.17	-0.95	9.56
ILMN_1754114	FLJ20021	PREDICTED: hypothetical LOC90024 (FLJ20021), mRNA.	XM_028217.4	8.24	9.12	0.88	9.56
ILMN_2364131	C20orf121	chromosome 20 open reading frame 121 (C20orf121), transcript variant 1, mRNA.	NM_024331.3	10.15	11.1	0.95	9.5
ILMN_1714600	NAV3	neuron navigator 3 (NAV3), mRNA.	NM_014903.4	6.39	7.74	1.35	9.49
ILMN_1732296	ID3	inhibitor of DNA binding 3, dominant negative helix-loop-helix protein (ID3), mRNA.	NM_002167.2	11.63	10.65	-0.98	9.47
ILMN_1658847	MGC61598	PREDICTED: similar to ankyrin-repeat protein Nrarp (MGC61598), mRNA.	XM_939432.1	10.58	9.52	-1.06	9.46
ILMN_1666222	PHACTR3	phosphatase and actin regulator 3 (PHACTR3), transcript variant 3, mRNA.	NM_183246.1	5.87	6.95	1.07	9.44
ILMN_2387952	FAM134B	family with sequence similarity 134, member B (FAM134B), transcript variant 1, mRNA.	NM_001034850.1	9.21	8.25	-0.97	9.36
ILMN_1806023	JUN	jun oncogene (JUN), mRNA.	NM_002228.3	9.03	10.29	1.26	9.36
ILMN_1735658	RTTN	rotatin (RTTN), mRNA.	NM_173630.2	9.75	10.65	0.91	9.33
ILMN_2358540	RBMS1	RNA binding motif, single stranded interacting protein 1 (RBMS1), transcript variant 3, mRNA.	NM_002897.3	10.19	11.07	0.88	9.28
ILMN_2157075	LRCH4	leucine-rich repeats and calponin homology (CH) domain containing 4 (LRCH4), mRNA.	NM_002319.3	8.25	7.33	-0.92	9.19
ILMN_1809433	XBP1	X-box binding protein 1 (XBP1), transcript variant 1, mRNA.	NM_005080.2	11.88	12.89	1.01	9.17
ILMN_1663787	KLK3	kallikrein-related peptidase 3 (KLK3), transcript variant 6, mRNA.	NM_001030050.1	6.36	7.68	1.32	9.13
ILMN_1701308	COL1A1	collagen, type I, alpha 1 (COL1A1), mRNA.	NM_000088.3	6.42	7.49	1.07	9.1
ILMN_1796737	APM-1	PREDICTED: BTB/POZ-zinc finger protein-like (APM-1), mRNA.	XM_113971.4	7.31	6.1	-1.21	9.07
ILMN_1798256	UPP1	uridine phosphorylase 1 (UPP1), transcript variant 1, mRNA.	NM_003364.2	11.69	12.52	0.83	9.05
ILMN_1693338	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1 (CYP1B1), mRNA.	NM_000104.2	10.85	9.25	-1.6	9.04
ILMN_1653856	STS-1	Cbl-interacting protein Sts-1 (STS-1), mRNA.	NM_032873.3	9.23	10.48	1.25	9.04
ILMN_2320330	MAL	mal, T-cell differentiation protein (MAL), transcript variant a, mRNA.	NM_002371.2	8.48	7.08	-1.4	9.01
ILMN_1689378	CCR4L	CCR4 carbon catabolite repression 4-like (S. cerevisiae) (CCR4L), mRNA.	NM_012118.2	6.76	8.08	1.32	8.98
ILMN_1653824	LAMC2	laminin, gamma 2 (LAMC2), transcript variant 1, mRNA.	NM_005562.1	9.23	10.73	1.49	8.94
ILMN_1772876	ZNF395	zinc finger protein 395 (ZNF395), mRNA.	NM_018660.2	10.14	9.16	-0.98	8.93
ILMN_1656910	TRIM6	tripartite motif-containing 6 (TRIM6), transcript variant 2, mRNA.	NM_058166.3	8.58	7.53	-1.06	8.93
ILMN_1744442	C20orf121	chromosome 20 open reading frame 121 (C20orf121), transcript variant 2, mRNA.	NM_001039199.1	9.07	10.05	0.98	8.93
ILMN_2148193	MPPED2	metallophosphoesterase domain containing 2 (MPPED2), mRNA.	NM_001584.1	8.24	6.68	-1.56	8.92
ILMN_1715133	IVNS1ABP	influenza virus NS1A binding protein (IVNS1ABP), transcript variant 2, mRNA.	NM_016389.2	6.57	7.75	1.18	8.9
ILMN_1718960	SERPINB8	serpin peptidase inhibitor, clade B (ovalbumin), member 8 (SERPINB8), transcript variant 2, mRNA.	NM_198833.1	8.74	9.78	1.04	8.85
ILMN_1655930	ELL2	elongation factor, RNA polymerase II, 2 (ELL2), mRNA.	NM_012081.4	9.22	10.2	0.98	8.82
ILMN_1655126	PI4KAP2	phosphatidylinositol 4-kinase, catalytic, alpha polypeptide pseudogene 2 (PI4KAP2), mRNA.	NM_199345.3	10.03	9.2	-0.83	8.81
ILMN_1730794	SERTAD4	SERTA domain containing 4 (SERTAD4), mRNA.	NM_019605.2	8.21	9.32	1.11	8.79
ILMN_1666392	WNT4	wingless-type MMTV integration site family, member 4 (WNT4), mRNA.	NM_030761.3	6.68	7.8	1.13	8.78
ILMN_1856480		cDNA clone IMAGE:5263177		9.52	8.53	-0.98	8.72
ILMN_1678087	MAP3K4	mitogen-activated protein kinase kinase kinase 4 (MAP3K4), transcript variant 1, mRNA.	NM_005922.2	10.37	11.21	0.84	8.72
ILMN_1785900	LOC653108	PREDICTED: similar to coxsackie virus and adenovirus receptor precursor (LOC653108), mRNA.	XR_016129.1	8.39	7.5	-0.89	8.68
ILMN_1809364	NTF3	neurotrophin 3 (NTF3), mRNA.	NM_002527.3	7.29	6.21	-1.08	8.66
ILMN_1709067	SAMD11	sterile alpha motif domain containing 11 (SAMD11), mRNA.	NM_152486.2	6.25	7.33	1.09	8.66
ILMN_2197365	RG52	regulator of G-protein signalling 2, 24kDa (RG52), mRNA.	NM_002923.1	10.08	8.97	-1.11	8.62
ILMN_1713813	LOC400578	PREDICTED: similar to Keratin, type I cytoskeletal 14 (Cytokeratin-14) (CK-14) (Keratin-14) (K14) (LOC400578), mRNA.	XR_017543.1	8.89	10.02	1.14	8.62
ILMN_1809522	BTBD14A	BTB (POZ) domain containing 14A (BTBD14A), mRNA.	NM_144653.3	9.38	10.2	0.82	8.61
ILMN_1769694	ACCN2	amiloride-sensitive cation channel 2, neuronal (ACCN2), transcript variant 2, mRNA.	NM_001095.2	8.07	7.02	-1.05	8.6
ILMN_2195703	PPARGC1B	peroxisome proliferator-activated receptor gamma, coactivator 1 beta (PPARGC1B), mRNA.	NM_133263.2	7.18	6.2	-0.98	8.59
ILMN_2041190	F2RL1	coagulation factor II (thrombin) receptor-like 1 (F2RL1), mRNA.	NM_005242.3	10.22	11.02	0.8	8.59
ILMN_1735788	TRIOBP	TRIO and F-actin binding protein (TRIOBP), transcript variant 6, mRNA.	NM_001039141.1	10.02	10.8	0.78	8.56
ILMN_1777513	KCTD11	potassium channel tetramerisation domain containing 11 (KCTD11), mRNA.	NM_001002914.2	7.91	8.91	1	8.55
ILMN_1736441	PDXP	pyridoxal (pyridoxine, vitamin B6) phosphatase (PDXP), mRNA.	NM_020315.4	9.8	8.96	-0.84	8.54
ILMN_1788107	IL11	interleukin 11 (IL11), mRNA.	NM_000641.2	6.78	7.84	1.06	8.54
ILMN_1726245	TGFB2	transforming growth factor, beta receptor II (70/80kDa) (TGFB2), transcript variant 1, mRNA.	NM_001024847.2	9.01	9.92	0.91	8.54
ILMN_1821176		601441142F1 NIH_MGC_72 cDNA clone IMAGE:3915971 5, mRNA sequence		7.59	6.67	-0.92	8.51
ILMN_1673566	ADAMTS1	ADAM metalloproteinase with thrombospondin type 1 motif 1 (ADAMTS1), mRNA.	NM_006988.3	7.72	8.83	1.11	8.48
ILMN_1739428	IFIT2	interferon-induced protein with tetratricopeptide repeats 2 (IFIT2), mRNA.	NM_001547.4	9.96	8.78	-1.18	8.44
ILMN_1720710	HSPB3	heat shock 27kDa protein 3 (HSPB3), mRNA.	NM_006308.1	7.42	8.36	0.94	8.44
ILMN_1695475	SEMA3C	sema domain, immunoglobulin domain (lg), short basic domain, secreted, (semaphorin) 3C (SEMA3C), mRNA.	NM_006379.2	7.79	9.1	1.3	8.39
ILMN_1708341	PDZK1	PDZ domain containing 1 (PDZK1), mRNA.	NM_002614.3	6.52	7.49	0.97	8.33
ILMN_2052208	GADD45A	growth arrest and DNA-damage-inducible, alpha (GADD45A), mRNA.	NM_001924.2	10.16	10.93	0.76	8.3
ILMN_1715647	VANGL2	vang-like 2 (van gogh, Drosophila) (VANGL2), mRNA.	NM_020335.1	8.79	7.92	-0.86	8.25
ILMN_1708223	PAK6	p21(CDKN1A)-activated kinase 6 (PAK6), mRNA.	NM_020168.3	9.42	8.33	-1.1	8.18
ILMN_2360202	PPP2R2B	protein phosphatase 2 (formerly 2A), regulatory subunit B, beta isoform (PPP2R2B), transcript variant 4, mRNA.	NM_181676.1	8.69	7.68	-1.01	8.16
ILMN_1800540	CD55	CD55 molecule, decay accelerating factor for complement (Cromer blood group) (CD55), mRNA.	NM_000574.2	8.22	9.25	1.04	8.16
ILMN_2384241	TGFB2	transforming growth factor, beta receptor II (70/80kDa) (TGFB2), transcript variant 1, mRNA.	NM_001024847.1	9.83	10.75	0.92	8.16
ILMN_1770338	TM4SF1	transmembrane 4 L six family member 1 (TM4SF1), mRNA.	NM_014220.2	13.62	12.89	-0.73	8.14
ILMN_1808999	ARHGFB19	Rho guanine nucleotide exchange factor (GEF) 19 (ARHGFB19), mRNA.	NM_153213.3	9.81	8.89	-0.92	8.13

Supplement 2: TGFb Signature - significantly regulated genes upon 4h TGFb stimulation of HaCaT cells

illumina Identifier	HGNC gene symbol	Gene Description	Refseq ID	UT 4h	UT+TGFb 4h	LR +/- TGFb 4h	-log10 pVAL LR +/- TGFb 4h
ILMN_2134056	SOX7	sRY (sex determining region Y)-box 7 (SOX7), mRNA.	NM_031439.2	8.63	7.56	-1.07	8.1
ILMN_1742151	NRG2	neuregulin 2 (NRG2), transcript variant 6, mRNA.	NM_013985.1	6.62	5.76	-0.85	8.07
ILMN_2184612	C3orf52	chromosome 3 open reading frame 52 (C3orf52), mRNA.	NM_024616.1	8.13	9.09	0.97	8.07
ILMN_1810962	PTPRK	protein tyrosine phosphatase, receptor type, K (PTPRK), mRNA.	NM_002844.2	10.37	11.44	1.07	8.05
ILMN_1662188	WNT11	wingless-type MMTV integration site family, member 11 (WNT11), mRNA.	NM_004626.2	5.95	6.94	0.98	8.04
ILMN_1653934	LOC650517	PREDICTED: hypothetical LOC650517 (LOC650517), mRNA.	XR_019109.1	9.66	10.76	1.1	8.04
ILMN_1730351	FLJ35767	FLJ35767 protein (FLJ35767), mRNA.	NM_207459.1	7.98	6.89	-1.08	8.02
ILMN_1739222	ETV5	ets variant gene 5 (ets-related molecule) (ETV5), mRNA.	NM_004454.1	7.97	8.99	1.03	8.02
ILMN_1752520	SLFN11	schlafen family member 11 (SLFN11), mRNA.	NM_152270.2	9.01	8.13	-0.88	7.87
ILMN_2086077	JUNB	jun B proto-oncogene (JUNB), mRNA.	NM_002229.2	7.9	8.73	0.83	7.86
ILMN_2374865	ATF3	activating transcription factor 3 (ATF3), transcript variant 4, mRNA.	NM_001040619.1	7.23	8.56	1.34	7.85
ILMN_1730906	FILIP1L	filamin A interacting protein 1-like (FILIP1L), transcript variant 1, mRNA.	NM_182909.2	8.01	9	0.99	7.85
ILMN_1669605	LOC646609	PREDICTED: similar to Chloride intracellular channel protein 4 (Intracellular chloride ion channel protein p64H1) (LOC646609),	XM_929546.1	6.05	7.05	1	7.84
ILMN_2359345	NET1	neuroepithelial cell transforming gene 1 (NET1), transcript variant 2, mRNA.	NM_005863.3	9.61	10.48	0.87	7.84
ILMN_1670158	FAM83A	family with sequence similarity 83, member A (FAM83A), transcript variant 2, mRNA.	NM_207006.1	8.19	9.15	0.95	7.83
ILMN_1748206	C20orf160	chromosome 20 open reading frame 160 (C20orf160), mRNA.	NM_080625.2	5.75	6.45	0.7	7.81
ILMN_1682717	IER3	immediate early response 3 (IER3), mRNA.	NM_003897.3	10.2	11.24	1.04	7.81
ILMN_1722834	RG512	regulator of G-protein signaling 12 (RG512), transcript variant 2, mRNA.	NM_002926.3	9.85	10.62	0.77	7.8
ILMN_1770850	PNMA1	paraneoplastic antigen MA1 (PNMA1), mRNA.	NM_006029.4	8.2	9.25	1.05	7.78
ILMN_1822484		603038678F1 NIH_MGC_115 cDNA clone IMAGE:5179554_5, mRNA sequence		5.87	6.77	0.9	7.78
ILMN_1673491	LRAT	lecithin retinol acyltransferase (phosphatidylcholine-retinol O-acyltransferase) (LRAT), mRNA.	NM_004744.3	6.53	7.46	0.93	7.75
ILMN_1778575	WNT7A	wingless-type MMTV integration site family, member 7A (WNT7A), mRNA.	NM_004625.3	8.09	8.99	0.89	7.73
ILMN_1798360	CXCR7	chemokine (C-X-C motif) receptor 7 (CXCR7), mRNA.	NM_020311.2	11.73	12.61	0.87	7.71
ILMN_1801068	DACT1	dapper, antagonist of beta-catenin, homolog 1 (Xenopus laevis) (DACT1), mRNA.	NM_016651.4	6.01	7.05	1.05	7.63
ILMN_1712896	FST	follistatin (FST), transcript variant FST317, mRNA.	NM_006350.2	8.79	9.86	1.07	7.63
ILMN_2088124	TMEM154	transmembrane protein 154 (TMEM154), mRNA.	NM_152680.1	9.95	10.77	0.82	7.63
ILMN_2388484	MAP2	microtubule-associated protein 2 (MAP2), transcript variant 1, mRNA.	NM_002374.3	6.95	8.01	1.07	7.61
ILMN_2197778	PHLDB2	pleckstrin homology-like domain, family B, member 2 (PHLDB2), mRNA.	NM_145753.1	8.79	9.98	1.18	7.59
ILMN_1695590	ADRB2	adrenergic, beta-2-, receptor, surface (ADRB2), mRNA.	NM_000024.4	9.13	8.21	-0.92	7.55
ILMN_2325347	B3GALNT1	beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) (B3GALNT1), transcript variant 3, mRNA.	NM_033168.2	7.51	6.71	-0.79	7.54
ILMN_1728298	SBK1	SH3-binding domain kinase 1 (SBK1), mRNA.	NM_001024401.2	7.92	7.19	-0.72	7.52
ILMN_1750748	MGC102966	PREDICTED: similar to Keratin, type I cytoskeletal 16 (Cytokeratin-16) (CK-16) (Keratin-16) (K16) (MGC102966), misc RNA.	XR_015970.1	9.36	10.43	1.07	7.52
ILMN_1673752	C1orf91	chromosome 1 open reading frame 91 (C1orf91), mRNA.	NM_019118.2	7.15	8.03	0.88	7.48
ILMN_1698020	DLC1	deleted in liver cancer 1 (DLC1), transcript variant 3, mRNA.	NM_024767.2	7.43	8.5	1.07	7.47
ILMN_1662795	CA2	carbonic anhydrase II (CA2), mRNA.	NM_000067.1	14.23	13.56	-0.68	7.45
ILMN_1717877	IVNS1ABP	influenza virus NS1A binding protein (IVNS1ABP), mRNA.	NM_006469.4	9.17	10.48	1.31	7.41
ILMN_2111237	MN1	meningioma (disrupted in balanced translocation) 1 (MN1), mRNA.	NM_002430.2	8.75	9.52	0.77	7.4
ILMN_1806651	PARP8	poly (ADP-ribose) polymerase family, member 8 (PARP8), mRNA.	NM_024615.2	8.34	9.47	1.13	7.38
ILMN_1854349		cDNA FLJ13522 fis, clone PLACE1005884		7.47	8.33	0.86	7.37
ILMN_1701881	ZNF365	zinc finger protein 365 (ZNF365), transcript variant B, mRNA.	NM_199450.2	6.42	7.36	0.94	7.37
ILMN_1729417	GNE	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase (GNE), mRNA.	NM_005476.3	8.89	7.84	-1.05	7.31
ILMN_2161577	CXCL6	chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) (CXCL6), mRNA.	NM_002993.2	7.56	8.46	0.9	7.31
ILMN_1660204	IGSF9B	immunoglobulin superfamily, member 9B (IGSF9B), mRNA.	NM_014987.1	7.16	8.15	0.99	7.3
ILMN_1652237	CBR3	carbonyl reductase 3 (CBR3), mRNA.	NM_001236.3	10.1	8.85	-1.26	7.29
ILMN_1703123	AXUD1	AXIN1 up-regulated 1 (AXUD1), mRNA.	NM_033027.2	8.77	9.47	0.71	7.29
ILMN_1712673	SASH1	SAM and SH3 domain containing 1 (SASH1), mRNA.	NM_015278.3	8.7	7.85	-0.85	7.28
ILMN_1840316		cDNA clone IMAGE:6186815, partial cds		8.83	8.1	-0.72	7.27
ILMN_1685709	TMEM125	transmembrane protein 125 (TMEM125), mRNA.	NM_144626.1	8.84	7.96	-0.88	7.26
ILMN_1725852	S100A2	S100 calcium binding protein A2 (S100A2), mRNA.	NM_005978.3	10.89	11.81	0.92	7.26
ILMN_1692056	HS3ST3A1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3A1 (HS3ST3A1), mRNA.	NM_006042.1	5.86	6.88	1.02	7.26
ILMN_1771800	PRKCA	protein kinase C, alpha (PRKCA), mRNA.	NM_002737.2	6.84	7.66	0.82	7.24
ILMN_1788547	GCLM	glutamate-cysteine ligase, modifier subunit (GCLM), mRNA.	NM_002061.2	11.19	11.99	0.8	7.2
ILMN_2388800	PPAP2B	phosphatidic acid phosphatase type 2B (PPAP2B), transcript variant 1, mRNA.	NM_003713.3	8.18	8.91	0.73	7.19
ILMN_2396875	IGFBP3	insulin-like growth factor binding protein 3 (IGFBP3), transcript variant 1, mRNA.	NM_001013398.1	9.36	8.48	-0.89	7.17
ILMN_1797704	LOC729252	PREDICTED: similar to Keratin, type I cytoskeletal 14 (Cytokeratin-14) (CK-14) (Keratin-14) (K14) (LOC729252), mRNA.	XR_015937.1	8.42	9.43	1.01	7.14
ILMN_1672589	SEMA4B	sema domain, immunoglobulin domain (lg), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4B (SEMA4B), mRNA.	NM_198925.1	10.54	9.86	-0.68	7.1
ILMN_1666819	PHLDB1	pleckstrin homology-like domain, family B, member 1 (PHLDB1), mRNA.	NM_015157.1	11	11.77	0.77	7.1
ILMN_1752269	ACSS1	acyl-CoA synthetase short-chain family member 1 (ACSS1), nuclear gene encoding mitochondrial protein, mRNA.	NM_032501.2	6.84	6	-0.84	7.09
ILMN_2358541	RBMS1	RNA binding motif, single stranded interacting protein 1 (RBMS1), transcript variant 3, mRNA.	NM_002897.3	8.54	9.35	0.81	7.04
ILMN_1753490	C10orf39	chromosome 10 open reading frame 39 (C10orf39), mRNA.	NM_194303.1	6.92	6.14	-0.78	7.03
ILMN_1767662	LASS6	LAG1 homolog, ceramide synthase 6 (LASS6), mRNA.	NM_203463.1	12.1	11.15	-0.95	7.01
ILMN_1792409	AMOT	angiominin (AMOT), transcript variant 2, mRNA.	NM_133265.2	9.06	7.57	-1.49	6.99
ILMN_2267535	NET1	neuroepithelial cell transforming gene 1 (NET1), transcript variant 2, mRNA.	NM_005863.3	8.86	9.84	0.98	6.99
ILMN_1657679	VAV3	vav 3 guanine nucleotide exchange factor (VAV3), transcript variant 1, mRNA.	NM_006113.4	10.01	8.8	-1.22	6.95
ILMN_177519	ITGB7	integrin, beta 7 (ITGB7), mRNA.	NM_000889.1	8.63	7.78	-0.85	6.91
ILMN_1751034	LOC162073	hypothetical protein LOC162073 (LOC162073), mRNA.	NM_001034841.2	11.66	12.51	0.86	6.89
ILMN_2233334	MYH16	myosin, heavy chain 16 pseudogene (MYH16) on chromosome 7.	NR_002147.2	6.47	7.26	0.79	6.88
ILMN_1681890	DYNLT3	dynein, light chain, Ctctx-type 3 (DYNLT3), mRNA.	NM_006520.1	9.4	10.42	1.02	6.85
ILMN_1779190	ALKBH8	alkB, alkylation repair homolog 8 (E. coli) (ALKBH8), mRNA.	NM_138775.1	8.86	9.94	1.08	6.83
ILMN_1680591	RTKN	rhotekin (RTKN), transcript variant 2, mRNA.	NM_033046.2	11.03	11.76	0.73	6.82
ILMN_1682599	GPRC5A	G protein-coupled receptor, family C, group 5, member A (GPRC5A), mRNA.	NM_003979.3	7.9	8.86	0.96	6.8
ILMN_2129572	F3	coagulation factor III (thromboplastin, tissue factor) (F3), mRNA.	NM_001993.2	10.53	11.35	0.81	6.79
ILMN_1790228	FURIN	furin (paired basic amino acid cleaving enzyme) (FURIN), mRNA.	NM_002569.2	7.4	8.17	0.77	6.75
ILMN_1672660	MBP	myelin basic protein (MBP), transcript variant 8, mRNA.	NM_001025100.1	11.76	11.09	-0.67	6.73
ILMN_2162253	NMU	neuromedin U (NMU), mRNA.	NM_006681.1	11.82	11.07	-0.75	6.73
ILMN_1739594	ACOT11	acyl-CoA thioesterase 11 (ACOT11), transcript variant 2, mRNA.	NM_147161.2	9.24	9.94	0.69	6.72
ILMN_1849494		clone 24841 mRNA sequence		6.2	7.09	0.89	6.69
ILMN_1741404	MSC	musculin (activated B-cell factor-1) (MSC), mRNA.	NM_005098.3	6.04	6.8	0.76	6.67
ILMN_1727805	SYNGR1	synaptogyrin 1 (SYNGR1), transcript variant 1a, mRNA.	NM_004711.3	6.73	6	-0.74	6.66
ILMN_2399523	JAG2	jagged 2 (JAG2), transcript variant 2, mRNA.	NM_145159.1	9.45	8.54	-0.91	6.64
ILMN_1779547	HPSE	heparanase (HPSE), mRNA.	NM_006665.2	7.66	6.76	-0.9	6.58
ILMN_1694268	HESE6	hairly and enhancer of split 6 (Drosophila) (HESE6), mRNA.	NM_018645.3	8.2	9.08	0.88	6.54
ILMN_2383323	CDC25B	cell division cycle 25 homolog B (S. pombe) (CDC25B), transcript variant 2, mRNA.	NM_004358.3	12.04	11.19	-0.85	6.51
ILMN_1785618	SMTN	smoothelin (SMTN), transcript variant 3, mRNA.	NM_006932.3	7.52	8.45	0.93	6.51
ILMN_1779252	TRIM22	tripartite motif-containing 22 (TRIM22), mRNA.	NM_006074.3	7.44	6.46	-0.98	6.49
ILMN_1809613	NGEF	neuronal guanine nucleotide exchange factor (NGEF), mRNA.	NM_019850.1	7.39	8.27	0.88	6.49
ILMN_1724040	ANKRD57	ankyrin repeat domain 57 (ANKRD57), mRNA.	NM_023016.3	11.04	11.68	0.64	6.47
ILMN_1659599	ADC	arginine decarboxylase (ADC), mRNA.	NM_025998.2	7.35	8.09	0.74	6.44
ILMN_1699989	BNIP1	BCL2/adenovirus E1B 19kD interacting protein like (BNIP1), mRNA.	NM_138278.2	8.6	7.64	-0.96	6.42
ILMN_2199439	CA2	carbonic anhydrase II (CA2), mRNA.	NM_000067.1	13.25	12.61	-0.64	6.42
ILMN_2117323	PIK3C2B	phosphoinositide-3-kinase, class 2, beta polypeptide (PIK3C2B), mRNA.	NM_002646.2	9.2	8.29	-0.91	6.4
ILMN_1659761	SNX29	sorting nexin 29 (SNX29), mRNA.	NM_001080530.2	9	9.66	0.66	6.4
ILMN_2391150	FILIP1L	filamin A interacting protein 1-like (FILIP1L), transcript variant 3, mRNA.	NM_001042459.1	7.39	8.2	0.81	6.36
ILMN_1732410	SLC16A9	solute carrier family 16, member 9 (monocarboxylic acid transporter 9) (SLC16A9), mRNA.	NM_194298.1	7.57	6.74	-0.83	6.35
ILMN_1788203	HEY1	hairly/enhancer-of-split related with YRPW motif 1 (HEY1), transcript variant 2, mRNA.	NM_001040708.1	7.79	8.57	0.78	6.35
ILMN_1748591	ODC1	ornithine decarboxylase 1 (ODC1), mRNA.	NM_002539.1	10.86	11.53	0.68	6.34
ILMN_2137789	KLF4	Kruppel-like factor 4 (gut) (KLF4), mRNA.	NM_004235.3	8.5	9.24	0.74	6.33
ILMN_1775591	C10orf65	chromosome 10 open reading frame 65 (C10orf65), mRNA.	NM_138413.2	7.75	6.66	-1.09	6.32
ILMN_1787718	SLC27A1	solute carrier family 27 (fatty acid transporter), member 1 (SLC27A1), mRNA.	NM_198580.1	8.66	7.93	-0.83	6.3
ILMN_2325185	TYSND1	trypsin domain containing 1 (TYSND1), transcript variant 1, mRNA.	NM_173555.2	8.03	7.17	-0.87	6.3
ILMN_1859908		cDNA clone MGC:13035 IMAGE:3613409, complete cds		9.3	8.67	-0.63	6.3
ILMN_2357730	CCRK	cell cycle related kinase (CCRK), transcript variant 2, mRNA.	NM_012119.3	8.99	8.4	-0.59	6.3
ILMN_1753613	HOXA5	homeobox A5 (HOXA5), mRNA.	NM_019102.2	11.42	10.84	-0.59	6.3

Supplement 2: TGFb Signature - significantly regulated genes upon 4h TGFb stimulation of HaCaT cells

illumina Identifier	HGNC gene symbol	Gene Description	Refseq ID	UT 4h	UT+TGFb 4h	LR +/- TGFb 4h	-log10 pVAL LR +/- TGFb 4h
ILMN 2172174	NP	nucleoside phosphorylase (NP), mRNA.	NM 000270.1	9.95	10.72	0.77	6.3
ILMN 2162799	AHR	aryl hydrocarbon receptor (AHR), mRNA.	NM 001621.3	7.65	8.42	0.78	6.3
ILMN 1704571	FAM53B	family with sequence similarity 53, member B (FAM53B), mRNA.	NM 014661.3	9.12	8.31	-0.81	6.26
ILMN 1782050	CEBPD	CCAAT/enhancer binding protein (C/EBP), delta (CEBPD), mRNA.	NM 005195.3	9.52	8.88	-0.64	6.26
ILMN 1811579	HOMER3	homer homolog 3 (Drosophila) (HOMER3), mRNA.	NM 004838.2	8.93	9.58	0.65	6.26
ILMN 1680774	LOC730994	PREDICTED: similar to NACHT, leucine rich repeat and PYD (pyrin domain) containing 1, transcript variant 1 (LOC730994), mRNA	XM 001132373.1	6.21	7.11	0.9	6.26
ILMN 1895660		K-EST0058554 S13KMS551 cDNA clone S13KMS551-7-G08 5, mRNA sequence		5.73	6.63	0.9	6.25
ILMN 1723035	OLR1	oxidized low density lipoprotein (lectin-like) receptor 1 (OLR1), mRNA.	NM 002543.3	10.48	11.36	0.88	6.22
ILMN 1849117		mRNA full length insert cDNA clone EUROIMAGE 151432		7.32	6.53	-0.79	6.21
ILMN 1747650	BMP6	bone morphogenetic protein 6 (BMP6), mRNA.	NM 001718.4	6.04	7.05	1.01	6.2
ILMN 2289093	KIAA1618	KIAA1618 (KIAA1618), mRNA.	NM 020954.2	7.26	7.89	0.63	6.19
ILMN 2374249	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2 (DYRK2), transcript variant 1, mRNA.	NM 003583.2	9.66	10.31	0.65	6.17
ILMN 1700081	FST	folistatin (FST), transcript variant FST344, mRNA.	NM 013409.1	12.09	12.87	0.78	6.17
ILMN 1758250	TRAFD1	TRAF-type zinc finger domain containing 1 (TRAFD1), mRNA.	NM 006700.1	9.58	8.66	-0.91	6.14
ILMN 2072357	IRF6	interferon regulatory factor 6 (IRF6), mRNA.	NM 006147.2	9.63	10.38	0.75	6.14
ILMN 1669617	GRB10	growth factor receptor-bound protein 10 (GRB10), transcript variant 4, mRNA.	NM 001001555.1	6.48	7.33	0.85	6.13
ILMN 2308903	WFDC3	WAP four-disulfide core domain 3 (WFDC3), transcript variant 2, mRNA.	NM 181522.1	8.38	7.3	-1.08	6.12
ILMN 1655229	SLC7A11	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11 (SLC7A11), mRNA.	NM 014331.3	7.07	7.85	0.78	6.08
ILMN 1727689	TNFAIP2	tumor necrosis factor, alpha-induced protein 2 (TNFAIP2), mRNA.	NM 006291.2	7.2	6.31	-0.89	6.06
ILMN 1724211	GPCR5C	G protein-coupled receptor, family C, group 5, member C (GPCR5C), transcript variant 1, mRNA.	NM 022036.2	8.39	7.55	-0.84	6.06
ILMN 1757298	BTBD7	BTB (POZ) domain containing 7 (BTBD7), transcript variant 2, mRNA.	NM 018167.3	7.85	8.6	0.75	6.06
ILMN 2230566	RAB40B	RAB40B, member RAS oncogene family (RAB40B), mRNA.	NM 006822.1	10.92	10.23	-0.69	6.05
ILMN 1660691	RAB31	RAB31, member RAS oncogene family (RAB31), mRNA.	NM 006868.2	10.11	10.8	0.68	6.01
ILMN 1774874	IL1RN	interleukin 1 receptor antagonist (IL1RN), transcript variant 4, mRNA.	NM 173843.1	10.38	9.61	-0.77	6
ILMN 1672662	SLC20A1	solute carrier family 20 (phosphate transporter), member 1 (SLC20A1), mRNA.	NM 005415.3	11.08	10.09	-0.99	6
ILMN 1754943	MYO1E	myosin IE (MYO1E), mRNA.	NM 004998.2	6.49	7.26	0.78	5.98
ILMN 1784602	CDKN1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1) (CDKN1A), transcript variant 1, mRNA.	NM 000389.2	11.22	11.83	0.61	5.96
ILMN 1770505	BIK	BCL2-interacting killer (apoptosis-inducing) (BIK), mRNA.	NM 001197.3	8.62	7.76	-0.86	5.95
ILMN 1910330		BX116720 Soares testis NHT cDNA clone IMAGp998F241782, mRNA sequence		8.01	8.66	0.65	5.95
ILMN 1774077	GBP2	guanylate binding protein 2, interferon-inducible (GBP2), mRNA.	NM 004120.3	7.71	6.75	-0.97	5.92
ILMN 1651498	GADD45G	growth arrest and DNA-damage-inducible, gamma (GADD45G), mRNA.	NM 006705.2	7.8	8.64	0.84	5.88
ILMN 1729987	SRC	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian) (SRC), transcript variant 2, mRNA.	NM 198291.1	8.85	9.64	0.8	5.88
ILMN 2185984	SASH1	SAM and SH3 domain containing 1 (SASH1), mRNA.	NM 015278.3	8.76	7.92	-0.84	5.87
ILMN 2381257	DSC2	desmocollin 2 (DSC2), transcript variant Dsc2a, mRNA.	NM 024422.2	9.22	9.99	0.77	5.87
ILMN 1675048	IGF1R	insulin-like growth factor 1 receptor (IGF1R), mRNA.	NM 000875.2	6.64	7.46	0.82	5.87
ILMN 1824362		BX105338 Soares pregnant uterus NHPHU cDNA clone IMAGp998C114347, mRNA sequence		7.81	8.74	0.93	5.86
ILMN 1671731	AVP1	arginine vasopressin-induced 1 (AVP1), mRNA.	NM 021732.1	11.83	11.23	-0.59	5.82
ILMN 1692539	SH3BP1	SH3-domain binding protein 1 (SH3BP1), mRNA.	NM 018957.3	8.54	7.76	-0.78	5.82
ILMN 1796461	PRSS8	protease, serine, 8 (PRSS8), mRNA.	NM 002773.3	10.96	10.1	-0.85	5.79
ILMN 1765187	LHB	luteinizing hormone beta polypeptide (LHB), mRNA.	NM 000894.2	5.91	6.75	0.85	5.79
ILMN 1739161	PPAP2A	phosphatidic acid phosphatase type 2A (PPAP2A), transcript variant 1, mRNA.	NM 003711.2	6.95	7.66	0.72	5.77
ILMN 177853	MBOAT2	PREDICTED: membrane bound O-acyltransferase domain containing 2 (MBOAT2), mRNA.	XM 001129292.1	7.01	7.87	0.86	5.76
ILMN 1702933	ADM2	adrenomedullin 2 (ADM2), mRNA.	NM 024866.4	8.33	9.1	0.76	5.75
ILMN 1754753	IL6R	interleukin 6 receptor (IL6R), transcript variant 1, mRNA.	NM 000565.2	6.7	5.93	-0.77	5.74
ILMN 1669982	CCDC85A	coiled-coil domain containing 85A (CCDC85A), mRNA.	NM 001080433.1	7.31	8.23	0.92	5.73
ILMN 1730928	CDK5R1	cyclin-dependent kinase 5, regulatory subunit 1 (p35) (CDK5R1), mRNA.	NM 003885.2	6.74	7.58	0.84	5.73
ILMN 1903914		cDNA FLJ26188 fis, clone ADG04821		7.55	8.47	0.92	5.71
ILMN 1715650	LOC648149	PREDICTED: hypothetical protein LOC648149 (LOC648149), mRNA.	XM 939208.2	6.1	6.97	0.88	5.65
ILMN 1669390	PPP1R13L	protein phosphatase 1, regulatory (inhibitor) subunit 13 like (PPP1R13L), mRNA.	NM 006663.2	8.86	9.74	0.88	5.65
ILMN 2371458	CXCR7	chemokine (C-X-C motif) receptor 7 (CXCR7), transcript variant 1, mRNA.	NM 001047841.1	9.81	10.59	0.78	5.64
ILMN 1695944	STX3	syntaxin 3 (STX3), mRNA.	NM 004177.3	10	9.35	-0.65	5.63
ILMN 1784661	TMEM2	transmembrane protein 2 (TMEM2), mRNA.	NM 013390.1	9.06	9.82	0.76	5.63
ILMN 2157099	CCNA1	cyclin A1 (CCNA1), mRNA.	NM 003914.2	7.35	7.99	0.64	5.6
ILMN 1826572		cDNA FLJ37243 fis, clone BRAMY2004387		6.09	6.74	0.66	5.6
ILMN 1870668		NISC_gi03f04.y1 NCI CGAP Pr28 cDNA clone IMAGE:3270678 5, mRNA sequence		7.18	6.54	-0.65	5.59
ILMN 1702255	KCNT1	potassium channel, subfamily T, member 1 (KCNT1), mRNA.	NM 020822.1	5.48	6.22	0.74	5.59
ILMN 1798543	STK17B	serine/threonine kinase 17b (STK17B), mRNA.	NM 004226.2	6.9	7.7	0.8	5.58
ILMN 1780132	PELI2	pellino homolog 2 (Drosophila) (PELI2), mRNA.	NM 021255.2	7.65	6.6	-1.05	5.56
ILMN 2370208	CMTM3	CKLF-like MARVEL transmembrane domain containing 3 (CMTM3), transcript variant 5, mRNA.	NM 001048251.1	6.62	7.42	0.8	5.56
ILMN 1668345	OAF	OAF homolog (Drosophila) (OAF), mRNA.	NM 178507.2	9.4	8.68	-0.72	5.55
ILMN 1814686	BCMO1	beta-carotene 15,15'-monooxygenase 1 (BCMO1), mRNA.	NM 017429.2	6.43	5.82	-0.61	5.55
ILMN 1735038		39875 membrane-associated ring finger (C3HC4) 3 (MARCH3), mRNA.	NM 178450.2	6.14	6.92	0.78	5.54
ILMN 1713803	LOC400566	hypothetical gene supported by AK128660 (LOC400566), mRNA.	NM 001013672.3	8.93	9.59	0.66	5.53
ILMN 1675448	ZFP36L1	zinc finger protein 36, C3H type-like 1 (ZFP36L1), mRNA.	NM 004926.2	10.96	11.62	0.66	5.52
ILMN 1685699	PRSS3	protease, serine, 3 (mesotrypsin) (PRSS3), mRNA.	NM 002771.2	9.2	9.78	0.58	5.51
ILMN 1740571	LOC647859	PREDICTED: similar to Occludin (LOC647859), mRNA.	XM 001130815.1	9.06	8.3	-0.76	5.48
ILMN 2400648	SRGAP3	SLIT-ROBO Rho GTPase activating protein 3 (SRGAP3), transcript variant 2, mRNA.	NM 001033117.1	6.74	6	-0.74	5.46
ILMN 1695687	SALL4	sal-like 4 (Drosophila) (SALL4), mRNA.	NM 020436.2	7.53	8.28	0.75	5.46
ILMN 1702899	PLEKH7A7	pleckstrin homology domain containing, family A member 7 (PLEKH7A7), mRNA.	NM 175058.3	8	7.39	-0.61	5.43
ILMN 1651347	SERTAD2	SERTA domain containing 2 (SERTAD2), mRNA.	NM 014755.1	10.95	10.4	-0.55	5.39
ILMN 1775501	IL18	interleukin 1, beta (IL18), mRNA.	NM 000576.2	7.31	6.57	-0.74	5.39
ILMN 2136089	MTE	metallothionein E (MTE), mRNA.	NM 175621.2	11.22	10.64	-0.59	5.38
ILMN 2298301	BNC1	basonuclin 1 (BNC1), mRNA.	NM 001717.2	8.65	9.48	0.83	5.36
ILMN 1811264	CCDC32	coiled-coil domain containing 32 (CCDC32), transcript variant 2, mRNA.	NM 052849.2	10.82	11.41	0.59	5.36
ILMN 1788377	COL27A1	collagen, type XXVII, alpha 1 (COL27A1), mRNA.	NM 032888.2	6.19	7.05	0.86	5.36
ILMN 1679837	SGPP1	sphingosine-1-phosphate phosphatase 1 (SGPP1), mRNA.	NM 030791.2	7.86	6.98	-0.87	5.35
ILMN 2071826	RNF152	ring finger protein 152 (RNF152), mRNA.	NM 173557.2	7.32	8.04	0.72	5.35
ILMN 1702501	RPS6KA2	ribosomal protein S6 kinase, 90kDa, polypeptide 2 (RPS6KA2), transcript variant 2, mRNA.	NM 001006932.1	8.58	9.16	0.58	5.34
ILMN 1910948		mRNA; cDNA DKFZp686j1595 (from clone DKFZp686j1595)		7.04	7.97	0.92	5.33
ILMN 1722156	RWDD2A	RWD domain containing 2A (RWDD2A), mRNA.	NM 033411.2	8.17	8.83	0.66	5.33
ILMN 2364022	SLC16A3	solute carrier family 16, member 3 (monocarboxylic acid transporter 4) (SLC16A3), transcript variant 2, mRNA.	NM 040207.2	8.52	9.26	0.73	5.32
ILMN 1813386	CORO6	coronin 6 (CORO6), mRNA.	NM 032854.2	7.53	8.37	0.84	5.29
ILMN 1792076	TRERF1	transcriptional regulating factor 1 (TRERF1), mRNA.	NM 033502.1	9.07	8.25	-0.82	5.26
ILMN 1665832	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein (ID1), transcript variant 2, mRNA.	NM 181353.1	7.67	6.69	-0.98	5.25
ILMN 1656826	SH3RF1	SH3 domain containing ring finger 1 (SH3RF1), mRNA.	NM 020870.3	8.03	9.05	1.01	5.25
ILMN 1776602	RNASE4	ribonuclease, RNase A family, 4 (RNASE4), transcript variant 3, mRNA.	NM 194431.1	7.85	7.16	-0.69	5.23
ILMN 1658798	MEGF9	multiple EGF-like domains 9 (MEGF9), mRNA.	NM 001080497.1	6.67	7.48	0.8	5.23
ILMN 1799320	C9orf37	chromosome 9 open reading frame 37 (C9orf37), mRNA.	NM 032937.3	7.52	8.23	0.71	5.22
ILMN 2043452	FANCE	Fanconi anemia, complementation group E (FANCE), mRNA.	NM 021922.2	9.16	8.55	-0.61	5.2
ILMN 1684653	GPR115	G protein-coupled receptor 115 (GPR115), mRNA.	NM 153838.3	5.93	6.94	1.01	5.2
ILMN 1686562	KIF13B	kinesin family member 13B (KIF13B), mRNA.	NM 015254.2	7.45	8.02	0.56	5.2
ILMN 1792978	HAS2	hyaluronan synthase 2 (HAS2), mRNA.	NM 005328.1	6.65	7.4	0.75	5.18
ILMN 2044453	LPAR5	lysophosphatidic acid receptor 5 (LPAR5), mRNA.	NM 020400.4	10.05	10.63	0.59	5.18
ILMN 2396444	CD14	CD14 molecule (CD14), transcript variant 2, mRNA.	NM 001040021.1	8.08	7.34	-0.74	5.17
ILMN 2239774	FAM83A	family with sequence similarity 83, member A (FAM83A), transcript variant 1, mRNA.	NM 032899.4	8.06	8.99	0.93	5.17
ILMN 1718766	MT1F	metallothionein 1F (MT1F), mRNA.	NM 005949.2	11.74	11.19	-0.55	5.16
ILMN 1730294	C18orf37	chromosome 18 open reading frame 37 (C18orf37), transcript variant 2, mRNA.	NM 194281.3	9.32	9.96	0.64	5.16
ILMN 1706344	ABHD6	abhydrolase domain containing 6 (ABHD6), mRNA.	NM 020676.4	7.98	7.27	-0.71	5.15
ILMN 2094952	NUAK2	NUAK family, SNF1-like kinase, 2 (NUAK2), mRNA.	NM 030952.1	7.25	7.91	0.66	5.14
ILMN 1870041		partial mRNA; ID YG39-1C		6.73	7.56	0.82	5.13
ILMN 1719792	PHLDB2	pleckstrin homology-like domain, family B, member 2 (PHLDB2), mRNA.	NM 145753.1	7.97	8.94	0.97	5.13
ILMN 1753413	TRIOBP	TRIO and F-actin binding protein (TRIOBP), transcript variant 2, mRNA.	NM 138632.2	7.89	8.67	0.77	5.13
ILMN 1679267	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM2), transcript variant 2, mRNA.	NM 198951.1	5.77	6.51	0.74	5.13

Supplement 2: TGFb Signature - significantly regulated genes upon 4h TGFb stimulation of HaCaT cells

Illumina Identifier	HGNC gene symbol	Gene Description	Refseq ID	UT 4h	UT+TGFb 4h	LR +/- TGFb 4h	-log10 pVAL LR +/- TGFb 4h
ILMN_1823809		cDNA: FLJ12429 fis, clone COL04205		8.67	9.48	0.8	5.13
ILMN_1760727	ANG	angiogenin, ribonuclease, RNase A family, 5 (ANG), transcript variant 2, mRNA.	NM_001097577.1	9.05	8.41	-0.65	5.12
ILMN_1741032	HERC3	hect domain and RLD 3 (HERC3), mRNA.	NM_014606.1	6.39	7.3	0.91	5.08
ILMN_2387090	CGGBP1	CGG triplet repeat binding protein 1 (CGGBP1), transcript variant 2, mRNA.	NM_003663.3	9.96	10.51	0.55	5.07
ILMN_1697561	FBXL16	F-box and leucine-rich repeat protein 16 (FBXL16), mRNA.	NM_153350.2	7.93	7.15	-0.78	5.05
ILMN_1900110		BX099724 Soares fetal liver spleen 1NFL5 S1 cDNA clone IMAGp998F201004, mRNA sequence		6.43	7.18	0.76	5.05
ILMN_2367469	CARS	cysteinyI-tRNA synthetase (CARS), transcript variant 4, mRNA.	NM_001014438.1	10.94	11.66	0.72	5.05
ILMN_2382290	KREMEN2	kringle containing transmembrane protein 2 (KREMEN2), transcript variant 2, mRNA.	NM_024507.2	8.06	7.39	-0.68	5.04
ILMN_1773959	ST6GALNAC5	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylglucosaminide alpha-2,6-sialyltransferase 5 (ST6GALNAC5)	NM_030965.1	7.4	8.2	0.8	5.03
ILMN_1749875	LOC228715	PREDICTED: similar to hCG38149 (LOC228715), mRNA.	XM_001128260.1	9.53	8.76	-0.77	5.02
ILMN_2087692	CYBRD1	cytochrome b reductase 1 (CYBRD1), mRNA.	NM_024843.2	8.76	7.93	-0.83	5.01
ILMN_2283597	FAM134B	family with sequence similarity 134, member B (FAM134B), transcript variant 1, mRNA.	NM_001034850.1	7.02	6.17	-0.84	5
ILMN_2383611	PTPRE	protein tyrosine phosphatase, receptor type, E (PTPRE), transcript variant 2, mRNA.	NM_130435.2	8.86	8.24	-0.63	5
ILMN_2109708	ECGF1	endothelial cell growth factor 1 (platelet-derived) (ECGF1), mRNA.	NM_001953.2	10.26	10.83	0.57	5
ILMN_1738546	LOC400578	PREDICTED: similar to Keratin, type I cytoskeletal 14 (Cytokeratin-14) (CK-14) (Keratin-14) (K14) (LOC400578), mRNA.	XR_017543.1	7.14	8.03	0.88	5
ILMN_1737184	CDC47	cell division cycle associated 7 (CDC47), transcript variant 1, mRNA.	NM_031942.4	11.47	10.76	-0.71	4.99
ILMN_1723678	PRPH	peripherin (PRPH), mRNA.	NM_006262.3	7.2	6.55	-0.65	4.97
ILMN_2053415	LDLR	low density lipoprotein receptor (familial hypercholesterolemia) (LDLR), mRNA.	NM_000527.2	11.72	11.06	-0.66	4.94
ILMN_1723522	APOLD1	apolipoprotein L domain containing 1 (APOLD1), mRNA.	NM_030817.1	7.52	6.72	-0.8	4.93
ILMN_1656285	METTL7A	methyltransferase like 7A (METTL7A), mRNA.	NM_014033.3	7.56	6.66	-0.9	4.92
ILMN_1776181	BIRC3	baculoviral IAP repeat-containing 3 (BIRC3), transcript variant 1, mRNA.	NM_001165.3	7.17	6.41	-0.76	4.92
ILMN_1763265	CHMP1B	chromatin modifying protein 1B (CHMP1B), mRNA.	NM_020412.3	10.04	10.57	0.53	4.91
ILMN_1773963	GNA15	guanine nucleotide binding protein (G protein), alpha 15 (Gq class) (GNA15), mRNA.	NM_002068.1	10.63	11.21	0.58	4.91
ILMN_1776724	LYPD6	LY6/PLAUR domain containing 6 (LYPD6), mRNA.	NM_194317.2	7.51	6.85	-0.66	4.9
ILMN_1743232	MICALCL	MICAL C-terminal like (MICALCL), mRNA.	NM_032867.2	7.38	8.17	0.79	4.87
ILMN_1739582	HoxA9	homeobox A9 (HoxA9), mRNA.	NM_152739.3	11.77	11.24	-0.53	4.81
ILMN_1702858	ADHFE1	alcohol dehydrogenase, iron containing, 1 (ADHFE1), mRNA.	NM_144650.2	7.56	6.97	-0.59	4.81
ILMN_1692295	MYO1G	myosin IG (MYO1G), mRNA.	NM_033054.1	5.93	6.58	0.65	4.8
ILMN_2324421	TXNRD1	thioredoxin reductase 1 (TXNRD1), transcript variant 4, mRNA.	NM_182743.1	10.09	9.2	-0.89	4.79
ILMN_1715991	SDPR	serum deprivation response (phosphatidylserine binding protein) (SDPR), mRNA.	NM_004657.4	7.17	6.54	-0.63	4.79
ILMN_1710937	IFI16	interferon, gamma-inducible protein 16 (IFI16), mRNA.	NM_005531.1	11.21	10.59	-0.62	4.78
ILMN_1753370	ABTB2	ankyrin repeat and BTB (POZ) domain containing 2 (ABTB2), mRNA.	NM_145804.1	6.56	7.4	0.84	4.78
ILMN_1758719	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 (NEDD9), transcript variant 1, mRNA.	NM_006403.2	6.96	7.74	0.78	4.77
ILMN_1756953	GBP6	guanylate binding protein family, member 6 (GBP6), mRNA.	NM_198460.1	9.02	8.29	-0.73	4.76
ILMN_1794017	SERTAD1	SERTA domain containing 1 (SERTAD1), mRNA.	NM_013376.3	9.34	9.87	0.53	4.75
ILMN_1752755	VWF	von Willebrand factor (VWF), mRNA.	NM_000552.3	6.83	6.11	-0.72	4.74
ILMN_1782141	GRHL3	grainyhead-like 3 (Drosophila) (GRHL3), transcript variant 1, mRNA.	NM_021180.2	7.6	6.8	-0.8	4.74
ILMN_1685122	COL9A2	collagen, type IX, alpha 2 (COL9A2), mRNA.	NM_001852.3	6.1	6.74	0.65	4.73
ILMN_2397750	IVNS1ABP	influenza virus NS1A binding protein (IVNS1ABP), mRNA.	NM_006469.4	9.19	10.36	1.18	4.73
ILMN_1743933	TSHZ3	teashirt zinc finger homeobox 3 (TSHZ3), mRNA.	NM_020856.2	6.26	7.08	0.82	4.69
ILMN_1823850		RST21348 Athersys RAGE Library cDNA, mRNA sequence		6.59	7.67	1.08	4.68
ILMN_1759175	DUSP10	dual specificity phosphatase 10 (DUSP10), transcript variant 1, mRNA.	NM_007207.3	7.81	7.23	-0.58	4.66
ILMN_1656422	GPR87	G protein-coupled receptor 87 (GPR87), mRNA.	NM_023915.2	8.49	9.33	0.83	4.64
ILMN_1806607	SFN	stratifin (SFN), mRNA.	NM_006142.3	12	12.56	0.56	4.61
ILMN_1700935	HAS2	hyaluronan synthase 2 (HAS2), mRNA.	NM_005328.1	6.09	6.67	0.58	4.61
ILMN_1729095	PDZD2	PDZ domain containing 2 (PDZD2), mRNA.	NM_178140.2	7.95	7.2	-0.75	4.6
ILMN_1813374	C19orf28	chromosome 19 open reading frame 28 (C19orf28), transcript variant 3, mRNA.	NM_174983.3	6.68	7.44	0.76	4.6
ILMN_1684183	RAD9A	RAD9 homolog A (S. pombe) (RAD9A), mRNA.	NM_004584.2	8.83	8.15	-0.68	4.59
ILMN_1854132		BX098874 Soares NHHMPu S1 cDNA clone IMAGp998D154543, mRNA sequence		8.56	7.81	-0.75	4.59
ILMN_2228938	ECM2	extracellular matrix protein 2, female organ and adipocyte specific (ECM2), mRNA.	NM_001393.2	8.86	8.27	-0.59	4.58
ILMN_1657870	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2 (arg, Abelson-related gene) (ABL2), transcript variant a, mRNA.	NM_005158.3	6.36	7.25	0.89	4.58
ILMN_2257607	STARD13	START domain containing 13 (STARD13), transcript variant alpha, mRNA.	NM_178006.1	8.2	9.05	0.84	4.58
ILMN_2097997	IFNE1	interferon epsilon 1 (IFNE1), mRNA.	NM_176891.3	6.44	7.25	0.81	4.57
ILMN_1661628	LOC653110	PREDICTED: similar to annexin A8, transcript variant 1 (LOC653110), mRNA.	XM_926584.1	12.32	13.1	0.78	4.57
ILMN_1683470	TMEM139	transmembrane protein 139 (TMEM139), mRNA.	NM_153345.1	7.64	7.03	-0.61	4.56
ILMN_1900520		602659965F1 NCI CGAP Skn3 cDNA clone IMAGE:4802969 5, mRNA sequence		9.96	10.56	0.6	4.55
ILMN_1707312	NFIL3	nuclear factor, interleukin 3 regulated (NFIL3), mRNA.	NM_005384.2	7.2	8.12	0.91	4.52
ILMN_2340919	GRB10	growth factor receptor-bound protein 10 (GRB10), transcript variant 1, mRNA.	NM_005311.3	5.87	6.51	0.64	4.47
ILMN_1705384	PPF1B1	PTPR interacting protein, binding protein 1 (liprin beta 1) (PPF1B1), transcript variant 2, mRNA.	NM_177444.1	8.03	8.69	0.66	4.47
ILMN_1701789	IFIT3	interferon-induced protein with tetratricopeptide repeats 3 (IFIT3), mRNA.	NM_001031683.1	8.69	7.67	-1.03	4.46
ILMN_1658494	C13orf15	chromosome 13 open reading frame 15 (C13orf15), mRNA.	NM_014059.2	8.8	8.24	-0.56	4.45
ILMN_2339835	PTGS1	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) (PTGS1), transcript variant 2, mRNA	NM_080591.1	8.57	7.92	-0.65	4.44
ILMN_1741200	RFX5	regulatory factor X, 5 (influences HLA class II expression) (RFX5), transcript variant 2, mRNA.	NM_001025603.1	10.74	10.06	-0.67	4.44
ILMN_1779234	CXCL6	chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) (CXCL6), mRNA.	NM_002993.2	7.81	8.44	0.63	4.44
ILMN_1713934	LITAF	lipopolysaccharide-induced TNF factor (LITAF), mRNA.	NM_004862.2	12.01	12.59	0.58	4.44
ILMN_2390310	C17orf91	chromosome 17 open reading frame 91 (C17orf91), transcript variant 2, mRNA.	NM_001001870.1	9.82	10.42	0.61	4.43
ILMN_1731224	PARP9	poly (ADP-ribose) polymerase family, member 9 (PARP9), mRNA.	NM_031458.1	9.12	8.25	-0.87	4.41
ILMN_2093343	PLAC8	placenta-specific 8 (PLAC8), mRNA.	NM_016619.1	8.01	7.41	-0.6	4.4
ILMN_2068104	TFPI2	tissue factor pathway inhibitor 2 (TFPI2), mRNA.	NM_006528.2	6.75	7.4	0.66	4.4
ILMN_1751465	BNC1	basonuclin 1 (BNC1), mRNA.	NM_001717.2	8.76	9.5	0.74	4.37
ILMN_1761762	C6orf141	chromosome 6 open reading frame 141 (C6orf141), mRNA.	NM_153344.1	8.88	9.74	0.86	4.37
ILMN_1670111	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) (CDKN2B), transcript variant 2, mRNA.	NM_078487.2	5.89	6.71	0.82	4.37
ILMN_1756992	MUC1	mucin 1, cell surface associated (MUC1), transcript variant 6, mRNA.	NM_001044391.1	9.41	8.86	-0.56	4.34
ILMN_1773742	DNAJB9	Dnaj (Hsp40) homolog, subfamily B, member 9 (DNAJB9), mRNA.	NM_012328.1	8.22	8.79	0.57	4.32
ILMN_1859787		BX105743 NCI CGAP GCG cDNA clone IMAGp998H135716, mRNA sequence		7.82	8.35	0.53	4.32
ILMN_1815745	SOX4	SRY (sex determining region Y)-box 4 (SOX4), mRNA.	NM_003107.2	7.36	8.21	0.84	4.31
ILMN_1698404	ERN1	endoplasmic reticulum to nucleus signalling 1 (ERN1), transcript variant 2, mRNA.	NM_152461.2	7.11	7.72	0.62	4.3
ILMN_2186983	ANXA8L2	annexin A8-like 2 (ANXA8L2), mRNA.	NM_001630.2	12.68	13.33	0.65	4.29
ILMN_1806502	ZNF165	zinc finger protein 165 (ZNF165), mRNA.	NM_003447.2	9.3	8.73	-0.57	4.28
ILMN_1668194	LMTK3	PREDICTED: lemur tyrosine kinase 3 (LMTK3), mRNA.	XM_936372.2	8.6	7.92	-0.67	4.28
ILMN_1703284	SPIRE2	spire homolog 2 (Drosophila) (SPIRE2), mRNA.	NM_032451.1	8.52	7.95	-0.56	4.26
ILMN_1904628		PMO-ST0264-161199-001-b06 ST0264 cDNA, mRNA sequence		7.5	6.8	-0.7	4.26
ILMN_1687768	NCOA7	nuclear receptor coactivator 7 (NCOA7), mRNA.	NM_181782.2	11.7	11.11	-0.59	4.26
ILMN_1792538	CD7	CD7 molecule (CD7), mRNA.	NM_006137.6	6.52	5.98	-0.54	4.26
ILMN_1654370	TESK2	testis-specific kinase 2 (TESK2), mRNA.	NM_007170.2	7.94	7.31	-0.63	4.25
ILMN_2360415	PRNP	prion protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia) (PRNP), t	NM_183079.2	12.82	13.38	0.57	4.24
ILMN_1732404	C2orf15	chromosome 2 open reading frame 15 (C2orf15), mRNA.	NM_144706.2	8.93	8.3	-0.63	4.23
ILMN_1887357		cDNA FLJ38396 fis, clone FEBRA2007957		8.94	8.32	-0.62	4.22
ILMN_1693242	ZNF342	zinc finger protein 342 (ZNF342), mRNA.	NM_145288.1	9.19	8.6	-0.59	4.22
ILMN_1740903	C7orf49	chromosome 7 open reading frame 49 (C7orf49), mRNA.	NM_024033.1	8.55	9.22	0.67	4.22
ILMN_2329927	ABCG1	ATP-binding cassette, sub-family G (WHITE), member 1 (ABCG1), transcript variant 2, mRNA.	NM_016818.2	6.45	7.06	0.61	4.19
ILMN_1791580	FXD3	FXD domain containing ion transport regulator 3 (FXD3), transcript variant 1, mRNA.	NM_005971.2	9.48	8.91	-0.57	4.17
ILMN_1731064	CABC1	chaperone, ABC1 activity of bcl complex homolog (S. pombe) (CABC1), nuclear gene encoding mitochondrial protein, mRNA.	NM_020247.4	9.1	8.53	-0.57	4.17
ILMN_1692177	TSC22D1	TSC22 domain family, member 1 (TSC22D1), transcript variant 2, mRNA.	NM_006022.2	10.35	10.92	0.57	4.17
ILMN_1728662	ALDH3B1	aldehyde dehydrogenase 3 family, member B1 (ALDH3B1), transcript variant 1, mRNA.	NM_000694.2	7.68	7.06	-0.63	4.16
ILMN_1826921		mRNA; cDNA DKFZp686B15184 (from clone DKFZp686B15184)		8.47	8.98	0.52	4.15
ILMN_1696974	ANG	angiogenin, ribonuclease, RNase A family, 5 (ANG), transcript variant 2, mRNA.	NM_001097577.1	7.71	6.96	-0.75	4.12
ILMN_1689200	DHDH	dihydrodiol dehydrogenase (dimeric) (DHDH), mRNA.	NM_014475.3	7.44	6.77	-0.67	4.1
ILMN_1686988	STS	suppression of tumorigenicity 5 (STS), transcript variant 3, mRNA.	NM_213618.1	7.27	7.95	0.68	4.08
ILMN_2384122	GPR56	G protein-coupled receptor 56 (GPR56), transcript variant 3, mRNA.	NM_201525.1	12.53	13.14	0.6	4.07
ILMN_2173919	MYO9A	myosin IXA (MYO9A), mRNA.	NM_006901.1	9.31	8.74	-0.58	4.05
ILMN_1660199	ACAA2	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase) (ACAA2), nuclear gene encoding mitoch	NM_006111.1	6.37	7.1	0.73	4.04
ILMN_1746763	ECM2	extracellular matrix protein 2, female organ and adipocyte specific (ECM2), mRNA.	NM_001393.2	7.43	6.84	-0.59	4.02

Supplement 2: TGFb Signature - significantly regulated genes upon 4h TGFb stimulation of HaCaT cells

illumina Identifier	HGNC gene symbol	Gene Description	Refseq ID	UT 4h	UT+TGFb 4h	LR +/- TGFb 4h	-log10 pVAL LR +/- TGFb 4h
ILMN_1801307	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10), mRNA.	NM_003810.2	10.63	9.79	-0.84	4.02
ILMN_2043918	DLEU1	deleted in lymphocytic leukemia, 1 (DLEU1) on chromosome 13.	NR_002605.1	9.92	9.26	-0.66	4.01
ILMN_1658575	GALNT5	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 5 (GalNac-T5) (GALNT5), mRNA.	NM_014568.1	8.55	7.92	-0.63	4.01
ILMN_2287157	DST	dystonin (DST), transcript variant 1, mRNA.	NM_183380.1	7.24	8.01	0.77	4.01
ILMN_1745570	KLK7	kallikrein-related peptidase 7 (KLK7), transcript variant 1, mRNA.	NM_005046.2	10.59	10.02	-0.57	3.99
ILMN_1666376	TRIM56	tripartite motif-containing 56 (TRIM56), mRNA.	NM_030961.1	8.87	9.68	0.8	3.98
ILMN_1732468	HSPA4L	heat shock 70kDa protein 4-like (HSPA4L), mRNA.	NM_014278.2	7.8	7.12	-0.68	3.97
ILMN_1803811	TRIB1	tribbles homolog 1 (Drosophila) (TRIB1), mRNA.	NM_025195.2	10.05	10.67	0.62	3.97
ILMN_2342579	IL7R	interleukin 7 receptor (IL7R), mRNA.	NM_002185.2	6.87	7.52	0.66	3.97
ILMN_1684497	C10orf33	chromosome 10 open reading frame 33 (C10orf33), mRNA.	NM_032709.1	7.39	6.69	-0.7	3.95
ILMN_1752455	DOCK5	dedicator of cytokinesis 5 (DOCK5), mRNA.	NM_029400.6	8.68	9.44	0.76	3.95
ILMN_1718990	NFRKB	nuclear factor related to kappaB binding protein (NFRKB), mRNA.	NM_006165.2	7.65	7.07	-0.58	3.94
ILMN_1659122	KLF10	Kruppel-like factor 10 (KLF10), transcript variant 1, mRNA.	NM_005655.1	6.68	7.4	0.72	3.92
ILMN_1662640	C20orf127	chromosome 20 open reading frame 127 (C20orf127), mRNA.	NM_080757.1	11.1	10.51	-0.59	3.91
ILMN_1811593	NPAL1	NIPA-like domain containing 1 (NPAL1), mRNA.	NM_207330.1	8.22	9	0.78	3.9
ILMN_2374115	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha) (TFAP2A), transcript variant 2, mRNA.	NM_01032280.2	9.53	8.97	-0.55	3.89
ILMN_1751346	ERBB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) (ERBB3), transcript variant 1, mRNA.	NM_019822.2	9.38	8.41	-0.98	3.88
ILMN_1718968	MT1E	metallothionein 1E (functional) (MT1E), mRNA.	NM_175617.2	7.27	6.73	-0.55	3.88
ILMN_1703926	PTGER2	prostaglandin E receptor 2 (subtype EP2), 53kDa (PTGER2), mRNA.	NM_000956.2	8.22	8.79	0.58	3.88
ILMN_1674650	C9orf95	chromosome 9 open reading frame 95 (C9orf95), mRNA.	NM_017881.1	9.39	8.55	-0.84	3.87
ILMN_1685441	DDEF1L	development and differentiation enhancing factor-like 1 (DDEF1L), mRNA.	NM_017707.2	9.02	8.31	-0.72	3.87
ILMN_2262444	PDE7A	phosphodiesterase 7A (PDE7A), transcript variant 2, mRNA.	NM_002604.1	9.23	9.86	0.63	3.86
ILMN_1686573	DEFB1	defensin, beta 1 (DEFB1), mRNA.	NM_005218.3	7.63	6.72	-0.92	3.83
ILMN_1797009	F3	coagulation factor III (thromboplastin, tissue factor) (F3), mRNA.	NM_001993.2	8.33	9.03	0.7	3.8
ILMN_2401873	DUSP10	dual specificity phosphatase 10 (DUSP10), transcript variant 3, mRNA.	NM_144729.1	9.56	8.83	-0.73	3.79
ILMN_2352921	BPGM	2,3-bisphosphoglycerate mutase (BPGM), transcript variant 1, mRNA.	NM_001724.3	7.21	7.86	0.65	3.79
ILMN_1812968	SOX18	SRY (sex determining region Y)-box 18 (SOX18), mRNA.	NM_018419.2	6.78	7.7	0.92	3.78
ILMN_1726448	MMP1	matrix metalloproteinase 1 (interstitial collagenase) (MMP1), mRNA.	NM_002421.2	7.12	7.94	0.82	3.78
ILMN_2175112	KCNK53	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 3 (KCNK53), mRNA.	NM_002252.3	7.65	7.11	-0.54	3.76
ILMN_2402416	DNAB6	Dnaj (Hsp40) homolog, subfamily B, member 6 (DNAB6), transcript variant 2, mRNA.	NM_005494.2	10.64	11.16	0.52	3.76
ILMN_2411897	KLF10	Kruppel-like factor 10 (KLF10), transcript variant 1, mRNA.	NM_005655.1	6.39	7.02	0.62	3.76
ILMN_1671005	IRF2BP2	interferon regulatory factor 2 binding protein 2 (IRF2BP2), transcript variant 1, mRNA.	NM_182972.2	8.15	8.77	0.62	3.75
ILMN_1867664	SPTLC3	serine palmitoyltransferase, long chain base subunit 3 (SPTLC3), mRNA.	NM_018327.2	8.27	7.53	-0.75	3.74
ILMN_1893697	CYR61	nj54b12.s1 NCI CGAP Pr9 cDNA clone IMAGE:996287, mRNA sequence		7.19	6.53	-0.66	3.74
ILMN_2188264	CYR61	cysteine-rich, angiogenic inducer, 61 (CYR61), mRNA.	NM_001554.3	8.32	9.62	1.3	3.73
ILMN_2077905	PTGFRN	prostaglandin F2 receptor negative regulator (PTGFRN), mRNA.	NM_020440.2	7.64	8.51	0.87	3.72
ILMN_1715189	LHX6	LIM homeobox 6 (LHX6), transcript variant 2, mRNA.	NM_199160.2	6.37	5.75	-0.61	3.71
ILMN_1751561	CAMK1D	calcium/calmodulin-dependent protein kinase ID (CAMK1D), transcript variant 2, mRNA.	NM_153498.2	6.18	6.77	0.6	3.71
ILMN_1695719	EIF2C2	eukaryotic translation initiation factor 2C, 2 (EIF2C2), mRNA.	NM_012154.2	9.7	10.41	0.72	3.71
ILMN_1718671	GJB6	gap junction protein, beta 6 (GJB6), mRNA.	NM_006783.2	6.07	6.62	0.55	3.71
ILMN_1747556	CDK9	cyclin-dependent kinase 9 (CDC2-related kinase) (CDK9), mRNA.	NM_001261.2	9.17	9.77	0.6	3.7
ILMN_1794643	ZGPAT	zinc finger, CCCH-type with G patch domain (ZGPAT), transcript variant 1, mRNA.	NM_032527.3	10.02	10.55	0.53	3.69
ILMN_1708006	MICB	MHC class I polypeptide-related sequence B (MICB), mRNA.	NM_005931.2	8.91	8.37	-0.54	3.68
ILMN_1789793	NUAK2	NUAK family, SNF1-like kinase, 2 (NUAK2), mRNA.	NM_030952.1	6.87	7.54	0.68	3.68
ILMN_1658483	IL1A	interleukin 1, alpha (IL1A), mRNA.	NM_000575.3	7.18	7.84	0.66	3.68
ILMN_1695290	FERMT2	fermitin family homolog 2 (Drosophila) (FERMT2), mRNA.	NM_006832.1	8.83	9.38	0.56	3.65
ILMN_1685496	RGS7	regulator of G-protein signalling 7 (RGS7), mRNA.	NM_002924.3	8.05	8.9	0.85	3.65
ILMN_1651767	MKL1	megakaryoblastic leukemia (translocation) 1 (MKL1), mRNA.	NM_020831.3	7.39	8.13	0.74	3.65
ILMN_2151281	GABARAPL1	GABA(A) receptor-associated protein like 1 (GABARAPL1), mRNA.	NM_031412.2	9.49	10.2	0.71	3.63
ILMN_1684211	SEC14L2	SEC14-like 2 (S. cerevisiae) (SEC14L2), mRNA.	NM_012429.1	7.14	7.9	0.77	3.62
ILMN_1748844	CNKSR3	CNKSR family member 3 (CNKSR3), mRNA.	NM_173515.2	8.29	7.66	-0.63	3.58
ILMN_1660451	STARD13	START domain containing 13 (STARD13), transcript variant delta, mRNA.	NM_178008.1	8.94	9.47	0.53	3.58
ILMN_1846771	AGENCOURT_10167693 NIH_MGC_71	cDNA clone IMAGE:6527009 5, mRNA sequence		8.05	7.38	-0.67	3.57
ILMN_1727200	SLCO4A1	solute carrier organic anion transporter family, member 4A1 (SLCO4A1), mRNA.	NM_016354.3	7.38	6.72	-0.66	3.57
ILMN_1721922	NAB2	NGFI-A binding protein 2 (EGR1 binding protein 2) (NAB2), mRNA.	NM_005967.2	7.76	7.06	-0.7	3.57
ILMN_1680987	HAND1	heart and neural crest derivatives expressed 1 (HAND1), mRNA.	NM_004821.1	6.18	6.77	0.6	3.57
ILMN_1703891	TBC1D9	TBC1 domain family, member 9 (with GRAM domain) (TBC1D9), mRNA.	NM_015130.2	7.98	7.4	-0.58	3.55
ILMN_1760490	ACVR1	activin A receptor, type I (ACVR1), mRNA.	NM_001105.2	10.02	10.55	0.54	3.55
ILMN_1687721	PROC	protein C (inactivator of coagulation factors Va and VIII) (PROC), mRNA.	NM_000312.1	7.76	8.33	0.57	3.55
ILMN_1687538	ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian) (ETS1), mRNA.	NM_005238.2	10.45	11.31	0.87	3.55
ILMN_1670539	LOC92017	similar to RIKEN cDNA 4933437K13 (LOC92017), mRNA.	NM_001009607.1	7.31	7.85	0.55	3.55
ILMN_2211728	GUCA1B	guanylate cyclase activator 1B (retina) (GUCA1B), mRNA.	NM_002098.3	7.12	6.42	-0.7	3.54
ILMN_1780255	KLK6	kallikrein-related peptidase 6 (KLK6), transcript variant B, mRNA.	NM_001012964.1	9.27	9.8	0.52	3.53
ILMN_2407389	GPNMB	glycoprotein (transmembrane) nmb (GPNMB), transcript variant 2, mRNA.	NM_002510.2	9.49	8.93	-0.57	3.51
ILMN_1910180		cDNA: FLJ21027 fls, clone CAE07110		6.65	7.33	0.68	3.51
ILMN_1741346	EPHB3	EPH receptor B3 (EPHB3), mRNA.	NM_004443.3	8.07	7.47	-0.59	3.5
ILMN_1683998	CREG2	cellular repressor of E1A-stimulated genes 2 (CREG2), mRNA.	NM_153836.2	7.09	8	0.91	3.49
ILMN_2336094	ODZ3	odz, odd Oz/ten-m homolog 3 (Drosophila) (ODZ3), mRNA.	NM_001080477.1	9.68	10.33	0.65	3.49
ILMN_1791593	MGC24039	hypothetical protein MGC24039 (MGC24039), mRNA.	NM_144973.3	6.73	6.17	-0.56	3.46
ILMN_2046470	DAAM1	disevelled associated activator of morphogenesis 1 (DAAM1), mRNA.	NM_014992.1	10.67	11.43	0.76	3.46
ILMN_1835631		AV645572 GLC cDNA clone GLCABG03 3, mRNA sequence		7.34	8.15	0.81	3.46
ILMN_2398408	TCEAL1	transcription elongation factor A (SII)-like 1 (TCEAL1), transcript variant 2, mRNA.	NM_001006639.1	8.95	9.53	0.58	3.46
ILMN_1740415	WFDC3	WAP four-disulfide core domain 3 (WFDC3), mRNA.	NM_080614.1	7.18	6.36	-0.82	3.45
ILMN_1689876	LOC648189	PREDICTED: similar to TBC1 domain family, member 2B (LOC648189), mRNA.	XM_937239.2	6.99	7.63	0.64	3.45
ILMN_1900998		cDNA clone IMAGE:5299888		8.88	7.98	-0.9	3.43
ILMN_1754130	TRIM52	tripartite motif-containing 52 (TRIM52), mRNA.	NM_032765.3	8.12	8.78	0.66	3.43
ILMN_1813763	SLC20A2	solute carrier family 20 (phosphate transporter), member 2 (SLC20A2), mRNA.	NM_006749.3	9.24	8.57	-0.67	3.41
ILMN_1814333	SERPINI1	serpin peptidase inhibitor, clade I (neuroserpin), member 1 (SERPINI1), mRNA.	NM_005025.3	6.81	6.24	-0.57	3.41
ILMN_1717636	RGMA	RGM domain family, member A (RGMA), mRNA.	NM_020211.1	8.09	7.43	-0.65	3.41
ILMN_1708798	EAF2	ELL associated factor 2 (EAF2), mRNA.	NM_018456.4	7.73	8.41	0.68	3.41
ILMN_2124802	MT1H	metallothionein 1H (MT1H), mRNA.	NM_005951.2	7.77	6.99	-0.78	3.4
ILMN_1752237	DDEF2	development and differentiation enhancing factor 2 (DDEF2), mRNA.	NM_003887.1	9.14	9.83	0.69	3.4
ILMN_1696432	IDH1	isocitrate dehydrogenase 1 (NADP+), soluble (IDH1), mRNA.	NM_005896.2	9.9	9.16	-0.74	3.38
ILMN_1734781	IFNE1	interferon epsilon 1 (IFNE1), mRNA.	NM_176891.3	6.48	7.08	0.6	3.35
ILMN_2340027	TSPAN4	tetraspanin 4 (TSPAN4), transcript variant 6, mRNA.	NM_001025238.1	7.38	8.06	0.67	3.35
ILMN_2413318	CCDC32	coiled-coil domain containing 32 (CCDC32), transcript variant 3, mRNA.	NM_001080791.1	7.84	8.44	0.6	3.33
ILMN_1690523	LRRC20	leucine rich repeat containing 20 (LRRC20), transcript variant 2, mRNA.	NM_018239.2	9.47	8.89	-0.58	3.3
ILMN_1800311	HSF2	heat shock transcription factor 2 (HSF2), mRNA.	NM_005406.2	8.69	8.14	-0.55	3.3
ILMN_1673917	GTF2I	general transcription factor II, i (GTF2I), transcript variant 3, mRNA.	NM_033001.1	8.47	9.08	0.62	3.3
ILMN_1779144	CLEC2A	C-type lectin domain family 2, member A (CLEC2A), mRNA.	NM_207375.1	5.85	6.53	0.68	3.3
ILMN_1758672	FAM107B	family with sequence similarity 107, member B (FAM107B), mRNA.	NM_031453.2	9.43	10.15	0.72	3.3
ILMN_1655165	RNF138	ring finger protein 138 (RNF138), transcript variant 1, mRNA.	NM_016271.3	7.9	7.24	-0.66	3.29
ILMN_2138801	TP73L	tumor protein p73-like (TP73L), mRNA.	NM_003722.3	11.71	12.64	0.93	3.29
ILMN_2162860	SLFN11	schlafen family member 11 (SLFN11), mRNA.	NM_152270.2	7.42	6.84	-0.58	3.27
ILMN_1770641	KLHL3	kelch-like 3 (Drosophila) (KLHL3), mRNA.	NM_017415.1	6.98	6.38	-0.6	3.26
ILMN_1711048	ZBTB17	zinc finger and BTB domain containing 17 (ZBTB17), mRNA.	NM_003443.1	8.22	8.82	0.6	3.25
ILMN_1697729	MAP2K6	mitogen-activated protein kinase kinase 6 (MAP2K6), mRNA.	NM_002758.3	6.39	5.85	-0.54	3.23
ILMN_1663873	MMP13	matrix metalloproteinase 13 (collagenase 3) (MMP13), mRNA.	NM_002427.2	7.21	8.09	0.88	3.23
ILMN_1776077	SF1	splicing factor 1 (SF1), transcript variant 4, mRNA.	NM_201997.1	7.74	8.56	0.82	3.23
ILMN_2347193	GSDML	gasdermin-like (GSDML), transcript variant 2, mRNA.	NM_018530.2	8.08	7.4	-0.68	3.22
ILMN_2238928	RADS1C	RADS1 homolog C (S. cerevisiae) (RADS1C), transcript variant 1, mRNA.	NM_058216.1	10.24	9.69	-0.54	3.21
ILMN_1677693	GPR109B	G protein-coupled receptor 109B (GPR109B), mRNA.	NM_006018.1	7.18	6.58	-0.61	3.2
ILMN_1722981	TLR5	toll-like receptor 5 (TLR5), mRNA.	NM_003268.4	8.27	7.69	-0.58	3.19

Supplement 2: TGFb Signature - significantly regulated genes upon 4h TGFb stimulation of HaCaT cells

illumin Identifier	HGNC gene symbol	Gene Description	Refseq ID	UT 4h	UT+TGFb 4h	LR +/- TGFb 4h	-log10 pVAL LR +/- TGFb 4h
ILMN_1746158	HOXD11	homeobox D11 (HOXD11), mRNA.	NM_021192.2	7.91	8.54	0.63	3.19
ILMN_1668465	KIAA1609	KIAA1609 (KIAA1609), mRNA.	NM_020947.2	7.6	8.18	0.58	3.19
ILMN_1893679		BX098660 Soares placenta Nb2HP cDNA clone IMAGp998L03214, mRNA sequence		7.49	6.78	-0.72	3.14
ILMN_1879480		cDNA FLJ35319 fis, clone PROST2011577		7.77	7.12	-0.65	3.14
ILMN_2404917	AFAP1L2	actin filament associated protein 1-like 2 (AFAP1L2), transcript variant 2, mRNA.	NM_032550.2	10.27	10.81	0.54	3.14
ILMN_1662038	LARGE	like-glycosyltransferase (LARGE), transcript variant 1, mRNA.	NM_004737.3	7.79	8.3	0.51	3.14
ILMN_1712684	FAM20C	family with sequence similarity 20, member C (FAM20C), mRNA.	NM_020223.2	7.98	8.54	0.56	3.14
ILMN_1712628	GTF2IRD1	GTF2I repeat domain containing 1 (GTF2IRD1), transcript variant 1, mRNA.	NM_016328.1	7.84	8.43	0.58	3.14
ILMN_1733937	MMD	monocyte to macrophage differentiation-associated (MMD), mRNA.	NM_012329.2	7.16	7.78	0.63	3.14
ILMN_2381476	SPG3A	spastic paraplegia 3A (autosomal dominant) (SPG3A), transcript variant 2, mRNA.	NM_181598.2	7.94	7.42	-0.52	3.12
ILMN_2214355	RAB30	RAB30, member RAS oncogene family (RAB30), mRNA.	NM_014488.3	6.98	7.65	0.67	3.12
ILMN_2051731	DUSP5P	dual specificity phosphatase 5 pseudogene (DUSP5P) on chromosome 1.	NR_002834.1	6.92	6.3	-0.62	3.1
ILMN_1746618	PAQR7	progesterin and adipoQ receptor family member VII (PAQR7), mRNA.	NM_178422.4	9.06	8.39	-0.67	3.1
ILMN_1800332	NGB	neuroglobin (NGB), mRNA.	NM_012127.3	7.04	7.65	0.61	3.1
ILMN_1655922	SAPS2	PREDICTED: SAPS domain family, member 2, transcript variant 2 (SAPS2), mRNA.	XM_942540.1	10.33	10.83	0.5	3.1
ILMN_1786197	NR2F1	nuclear receptor subfamily 2, group F, member 1 (NR2F1), mRNA.	NM_005654.4	8.99	8.41	-0.58	3.09
ILMN_1802082	PRDM8	PR domain containing 8 (PRDM8), transcript variant 1, mRNA.	NM_020226.3	6.87	7.57	0.7	3.08
ILMN_1664283	C9orf75	chromosome 9 open reading frame 75 (C9orf75), mRNA.	NM_173691.2	8.26	7.67	-0.59	3.07
ILMN_1798210	E2F7	E2F transcription factor 7 (E2F7), mRNA.	NM_203394.2	9.57	10.19	0.62	3.07
ILMN_1657996	LOC642035	PREDICTED: hypothetical protein LOC642035 (LOC642035), mRNA.	XM_936105.1	7	7.63	0.63	3.05
ILMN_1789058	C1orf188	chromosome 1 open reading frame 188 (C1orf188), mRNA.	NM_173795.2	8.32	7.77	-0.55	3.03
ILMN_1810591	PUS10	pseudouridylylase 10 (PUS10), mRNA.	NM_144709.1	7.29	7.91	0.62	3
ILMN_1678799	RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1 (RAPGEF1), transcript variant 2, mRNA.	NM_198679.1	6.78	7.44	0.65	3
ILMN_2057479	EGFL6	EGF-like-domain, multiple 6 (EGFL6), mRNA.	NM_015507.2	6.81	6.21	-0.61	2.99
ILMN_1655796	39875	PREDICTED: membrane-associated ring finger (C3HC4) 3 (MARCH3), mRNA.	XM_001127871.1	8.1	8.69	0.6	2.98
ILMN_1787186	NOV	nephroblastoma overexpressed gene (NOV), mRNA.	NM_002514.2	7.18	6.58	-0.6	2.96
ILMN_1651964	ABCC5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (ABCC5), transcript variant 2, mRNA.	NM_01023587.1	10.29	9.77	-0.52	2.96
ILMN_1689251	SPG3A	spastic paraplegia 3A (autosomal dominant) (SPG3A), transcript variant 1, mRNA.	NM_015915.3	7.62	7	-0.63	2.95
ILMN_1723418	CEL	carboxyl ester lipase (bile salt-stimulated lipase) (CEL), mRNA.	NM_001807.3	8.68	8.1	-0.58	2.95
ILMN_2294976	RNASE4	ribonuclease, RNase A family, 4 (RNASE4), transcript variant 1, mRNA.	NM_194430.1	7.49	6.86	-0.63	2.93
ILMN_1735014	KLF6	Kruppel-like factor 6 (KLF6), transcript variant 2, mRNA.	NM_001300.4	10.46	10.97	0.51	2.92
ILMN_1798602	PCF11	PCF11, cleavage and polyadenylation factor subunit, homolog (S. cerevisiae) (PCF11), mRNA.	NM_015885.2	9	8.17	-0.84	2.91
ILMN_1798855	RASSF9	Ras association (RalGDS/AF-6) domain family (N-terminal) member 9 (RASSF9), mRNA.	NM_005447.3	6.01	6.55	0.54	2.91
ILMN_1699644	39875	PREDICTED: membrane-associated ring finger (C3HC4) 3 (MARCH3), mRNA.	XM_001127871.1	8.16	8.7	0.54	2.89
ILMN_1689004	TNFRSF12A	tumor necrosis factor receptor superfamily, member 12A (TNFRSF12A), mRNA.	NM_016639.1	10.5	11.17	0.66	2.89
ILMN_2249018	LOC389816	cytokeratin associated protein (LOC389816), mRNA.	NM_001013653.1	7.98	7.42	-0.56	2.88
ILMN_1653712	UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1-like 1 (UAP1L1), mRNA.	NM_207309.1	7.67	7.16	-0.51	2.87
ILMN_1686261	TOM1L2	target of myb1-like 2 (chicken) (TOM1L2), transcript variant 3, mRNA.	NM_001082968.1	7.38	6.83	-0.55	2.87
ILMN_2070896	BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase) (BMPR2), mRNA.	NM_001204.5	8.98	9.66	0.68	2.86
ILMN_1792679	ITGA5	integrin, alpha 5 (fibronectin receptor, alpha polypeptide) (ITGA5), mRNA.	NM_002205.2	7.32	7.96	0.63	2.86
ILMN_1676336	AADACL1	arylacetamide deacetylase-like 1 (AADACL1), mRNA.	NM_020792.3	9.11	8.56	-0.55	2.85
ILMN_1750497	GPR109A	G protein-coupled receptor 109A (GPR109A), mRNA.	NM_177551.3	7.48	6.81	-0.67	2.85
ILMN_1674629	C9orf3	chromosome 9 open reading frame 3 (C9orf3), mRNA.	NM_032823.3	8.43	8.95	0.52	2.84
ILMN_1764619	FLJ45244	FLJ45244 protein (FLJ45244), mRNA.	NM_207443.1	7.41	6.74	-0.67	2.82
ILMN_1749044	PVRL4	poliovirus receptor-related 4 (PVRL4), mRNA.	NM_030916.1	6.92	6.27	-0.65	2.81
ILMN_1715555	DBP	D site of albumin promoter (albumin D-box) binding protein (DBP), mRNA.	NM_001352.2	7.1	6.46	-0.64	2.79
ILMN_1715401	MT1G	metallothionein 1G (MT1G), mRNA.	NM_005950.1	8.56	7.96	-0.6	2.78
ILMN_1731609	CHMP6	PREDICTED: chromatin modifying protein 6 (CHMP6), mRNA.	XM_001132548.1	7.53	8.06	0.52	2.77
ILMN_1681252	C17orf44	chromosome 17 open reading frame 44 (C17orf44), mRNA.	NM_173621.1	7.13	6.54	-0.59	2.75
ILMN_2239754	IFIT3	interferon-induced protein with tetrapeptide repeats 3 (IFIT3), mRNA.	NM_001549.2	8	7.22	-0.78	2.74
ILMN_1697971	TRIM38	tripartite motif-containing 38 (TRIM38), mRNA.	NM_006355.2	8.55	7.92	-0.64	2.74
ILMN_1799579	CCDC51	coiled-coil domain containing 51 (CCDC51), mRNA.	NM_024661.3	8.91	8.34	-0.57	2.73
ILMN_1755954	CPEB3	cytoplasmic polyadenylation element binding protein 3 (CPEB3), mRNA.	NM_014912.3	9.04	8.36	-0.68	2.7
ILMN_2043079	ILDR1	immunoglobulin-like domain containing receptor 1 (ILDR1), mRNA.	NM_175924.2	7.26	6.7	-0.56	2.69
ILMN_2410826	OAS1	2',5'-oligoadenylate synthetase 1, 40/46kDa (OAS1), transcript variant 3, mRNA.	NM_001032409.1	6.97	6.23	-0.73	2.68
ILMN_1745262	REM2	RAS (RAD and GEM)-like GTP binding 2 (REM2), mRNA.	NM_173527.2	7.52	6.97	-0.55	2.68
ILMN_1700144	ITGA10	integrin, alpha 10 (ITGA10), mRNA.	NM_003637.3	6.88	6.34	-0.55	2.68
ILMN_1722811	CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1) (CDKN1B), mRNA.	NM_004064.2	9.56	8.77	-0.79	2.63
ILMN_1917095		DA697821 NT2NE2 cDNA clone NT2NE2019092 5, mRNA sequence		5.96	6.47	0.51	2.59
ILMN_1824391		EST384910 MAGe resequences, MAGL cDNA, mRNA sequence		8.22	8.75	0.53	2.56
ILMN_1681467	RAB11FIP4	RAB11 family interacting protein 4 (class II) (RAB11FIP4), mRNA.	NM_032932.3	7.2	6.62	-0.58	2.53
ILMN_1718629	NR1P1	nuclear receptor interacting protein 1 (NR1P1), mRNA.	NM_003489.2	9.24	9.98	0.74	2.5
ILMN_1762308	LOC654191	PREDICTED: similar to RIKEN cDNA 4933437K13 (LOC654191), mRNA.	XM_940642.1	8.63	9.14	0.51	2.47
ILMN_1700202	TMEM135	transmembrane protein 135 (TMEM135), mRNA.	NM_022918.2	8.18	7.59	-0.59	2.45
ILMN_2055156	PAG1	phosphoprotein associated with glycosphingolipid microdomains 1 (PAG1), mRNA.	NM_018440.3	6.55	7.08	0.53	2.45
ILMN_1714170	SPSB1	sPLA/ryanodine receptor domain and SOCS box containing 1 (SPSB1), mRNA.	NM_025106.2	7.97	7.45	-0.52	2.41
ILMN_1653026	PLAC8	placenta-specific 8 (PLAC8), mRNA.	NM_016619.1	7.85	7.31	-0.54	2.41
ILMN_2372413	BID	BH3 interacting domain death agonist (BID), transcript variant 3, mRNA.	NM_197967.1	8.23	7.69	-0.54	2.4
ILMN_1752008	OTUD1	PREDICTED: OTU domain containing 1 (OTUD1), mRNA.	XM_939698.1	7.97	8.54	0.56	2.4
ILMN_1693233	KIAA0513	KIAA0513 (KIAA0513), mRNA.	NM_014732.2	7.46	6.91	-0.55	2.39
ILMN_1719696	PLD1	phospholipase D1, phosphatidylcholine-specific (PLD1), mRNA.	NM_002662.2	7.58	7.03	-0.54	2.39
ILMN_1805466	SOX9	SRY (sex determining region Y)-box 9 (campomelic dysplasia, autosomal sex-reversal) (SOX9), mRNA.	NM_000346.2	8.91	9.64	0.72	2.37
ILMN_1761422	LOC440349	PREDICTED: similar to nuclear pore complex interacting protein, transcript variant 1 (LOC440349), mRNA.	XM_496129.2	6.97	7.7	0.73	2.37
ILMN_1838655		full-length cDNA clone CS0DI053Y009 of Placenta Cot 25-normalized of (human)		6.79	7.32	0.54	2.36
ILMN_1687556	DAPL1	death associated protein-like 1 (DAPL1), mRNA.	NM_001017920.1	6.82	6.25	-0.56	2.33
ILMN_1741159	MAP3K8	mitogen-activated protein kinase kinase kinase 8 (MAP3K8), mRNA.	NM_005204.2	8.22	7.68	-0.54	2.31
ILMN_2412380	TSC2D1	TSC2 domain family, member 1 (TSC2D1), transcript variant 1, mRNA.	NM_183422.1	9.67	10.28	0.6	2.31
ILMN_2075927	STK40	serine/threonine kinase 40 (STK40), mRNA.	NM_032017.1	9.77	10.28	0.51	2.29
ILMN_1793990	ID2	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein (ID2), mRNA.	NM_002166.4	8.77	8.2	-0.57	2.28
ILMN_2133100	LPIN2	lipin 2 (LPIN2), mRNA.	NM_014646.2	7.65	8.16	0.52	2.25
ILMN_1752247	AKAP13	A kinase (PRKA) anchor protein 13 (AKAP13), transcript variant 1, mRNA.	NM_006738.4	7.71	8.24	0.53	2.22
ILMN_2075757	LRIG3	leucine-rich repeats and immunoglobulin-like domains 3 (LRIG3), mRNA.	NM_153377.3	7.66	8.27	0.61	2.22
ILMN_2388585	GOPC	golgi associated PDZ and coiled-coil motif containing (GOPC), transcript variant 1, mRNA.	NM_020399.2	8.06	8.63	0.57	2.17
ILMN_2294978	RNASE4	ribonuclease, RNase A family, 4 (RNASE4), transcript variant 1, mRNA.	NM_194430.1	7.6	7.03	-0.58	2.12
ILMN_1679838	WBP5	WW domain binding protein 5 (WBP5), transcript variant 2, mRNA.	NM_001006612.1	11.1	10.58	-0.51	2.12
ILMN_1741869	WDR47	WD repeat domain 47 (WDR47), mRNA.	NM_014969.4	9.09	8.54	-0.55	2.12
ILMN_1855278		EST366269 MAGe resequences, MAGC cDNA, mRNA sequence		8.09	8.6	0.5	2.11
ILMN_1670932	LOC645737	PREDICTED: similar to 60S ribosomal protein L7, transcript variant 1 (LOC645737), mRNA.	XM_930508.1	8.55	7.73	-0.82	2.08
ILMN_1749636	FLJ13236	hypothetical protein FLJ13236 (FLJ13236), mRNA.	NM_024902.2	5.86	6.37	0.51	2.07
ILMN_1763666	ALDH3B2	aldehyde dehydrogenase 3 family, member B2 (ALDH3B2), transcript variant 2, mRNA.	NM_001031615.1	7.52	6.96	-0.56	2.03
ILMN_1783998	STAR5	STAR-related lipid transfer (START) domain containing 5 (STAR5), mRNA.	NM_181900.2	7.12	6.49	-0.63	2.03
ILMN_1739645	ANLN	anillin, actin binding protein (ANLN), mRNA.	NM_018685.2	11.04	10.36	-0.68	2.01
ILMN_2318643	TGIF1	TGFb-induced factor homeobox 1 (TGIF1), transcript variant 1, mRNA.	NM_170695.2	8.57	9.07	0.51	2