

Supplemental Table 3a. Interferon stimulated genes identified in the CD4+ T cells

ISGs CD4

Affymetrix Probe ID	Entrez Gene Symbol	Entrez Gene ID	Gene
206133_at	BIRC4BP	54739	XIAP associated factor-1
212643_at	C14orf32	93487	chromosome 14 open reading frame 32
212644_s_at	C14orf32	93487	chromosome 14 open reading frame 32
206011_at	CASP1	834	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
209970_x_at	CASP1	834	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
211366_x_at	CASP1	834	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
211367_s_at	CASP1	834	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
211368_s_at	CASP1	834	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
213294_at	CCDC75	253635	Coiled-coil domain containing 75
205098_at	CCR1	1230	chemokine (C-C motif) receptor 1
206991_s_at	CCR5	1234	chemokine (C-C motif) receptor 5
205692_s_at	CD38	952	CD38 antigen (p45)
221081_s_at	DENND2D	79961	DENN/MADD domain containing 2D
201231_s_at	ENO1	2023	enolase 1, (alpha)
218986_s_at	FLJ20035	55601	hypothetical protein FLJ20035
205483_s_at	G1P2	9636	interferon, alpha-inducible protein (clone IFI-15K)
204415_at	G1P3	2537	interferon, alpha-inducible protein (clone IFI-6-16)
202269_x_at	GBP1	2633	guanylate binding protein 1, interferon-inducible, 67kDa OR guanylate binding protein 1, i
202270_at	GBP1	2633	guanylate binding protein 1, interferon-inducible, 67kDa OR guanylate binding protein 1, i
210046_s_at	IDH2	3418	isocitrate dehydrogenase 2 (NADP+), mitochondrial
206332_s_at	IFI16	3428	interferon, gamma-inducible protein 16
208965_s_at	IFI16	3428	interferon, gamma-inducible protein 16
208966_x_at	IFI16	3428	interferon, gamma-inducible protein 16
202411_at	IFI27	3429	interferon, alpha-inducible protein 27
209417_s_at	IFI35	3430	interferon-induced protein 35
214059_at	IFI44	10561	Interferon-induced protein 44
214453_s_at	IFI44	10561	interferon-induced protein 44
204439_at	IFI44L	10964	interferon-induced protein 44-like
203153_at	IFIT1	3434	interferon-induced protein with tetratricopeptide repeats 1 OR interferon-induced protein v
208436_s_at	IRF7	3665	interferon regulatory factor 7
204698_at	ISG20	3669	interferon stimulated exonuclease gene 20kDa
33304_at	ISG20	3669	interferon stimulated exonuclease gene 20kDa
205569_at	LAMP3	27074	lysosomal-associated membrane protein 3
217933_s_at	LAP3	51056	leucine aminopeptidase 3
200923_at	LGALS3BP	3959	lectin, galactoside-binding, soluble, 3 binding protein
202145_at	LY6E	4061	lymphocyte antigen 6 complex, locus E
36711_at	MAFF	23764	v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)
201755_at	MCM5	4174	MCM5 minichromosome maintenance deficient 5, cell division cycle 46 (S. cerevisiae)
216237_s_at	MCM5	4174	MCM5 minichromosome maintenance deficient 5, cell division cycle 46 (S. cerevisiae)
213629_x_at	MT1F	4494	metallothionein 1F (functional)
217165_x_at	MT1F	4494	metallothionein 1F (functional)
202086_at	MX1	4599	myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse) OR my
205552_s_at	OAS1	4938	2',5'-oligoadenylate synthetase 1, 40/46kDa
204972_at	OAS2	4939	2'-5'-oligoadenylate synthetase 2, 69/71kDa
206553_at	OAS2	4939	2'-5'-oligoadenylate synthetase 2, 69/71kDa
218400_at	OAS3	4940	2'-5'-oligoadenylate synthetase 3, 100kDa
205660_at	OASL	8638	2'-5'-oligoadenylate synthetase-like
210797_s_at	OASL	8638	2'-5'-oligoadenylate synthetase-like
202430_s_at	PLSCR1	5359	phospholipid scramblase 1
202446_s_at	PLSCR1	5359	phospholipid scramblase 1
208680_at	PRDX1	5052	peroxiredoxin 1
201676_x_at	PSMA1	5682	proteasome (prosome, macropain) subunit, alpha type, 1
210759_s_at	PSMA1	5682	proteasome (prosome, macropain) subunit, alpha type, 1
211746_x_at	PSMA1	5682	proteasome (prosome, macropain) subunit, alpha type, 1 OR proteasome (prosome, mac
201532_at	PSMA3	5684	proteasome (prosome, macropain) subunit, alpha type, 3
203396_at	PSMA4	5685	proteasome (prosome, macropain) subunit, alpha type, 4
201274_at	PSMA5	5686	proteasome (prosome, macropain) subunit, alpha type, 5
208805_at	PSMA6	5687	proteasome (prosome, macropain) subunit, alpha type, 6
202659_at	PSMB10	5699	proteasome (prosome, macropain) subunit, beta type, 10
200039_s_at	PSMB2	5690	proteasome (prosome, macropain) subunit, beta type, 2 OR proteasome (prosome, mac
209040_s_at	PSMB8	5696	proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7
211609_x_at	PSMD4	5710	proteasome (prosome, macropain) 26S subunit, non-ATPase, 4 OR proteasome (prosom
200814_at	PSME1	5720	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)
201762_s_at	PSME2	5721	proteasome (prosome, macropain) activator subunit 2 (PA28 beta)
204070_at	RARRES3	5920	retinoic acid receptor responder (tazarotene induced) 3
218117_at	RBX1	9978	ring-box 1
212922_s_at	SMYD2	56950	SET and MYND domain containing 2
210001_s_at	SOC31	8651	suppressor of cytokine signaling 1
202307_s_at	TAP1	6890	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
35254_at	TRAFD1	10906	TRAF-type zinc finger domain containing 1
201649_at	UBE2L6	9246	ubiquitin-conjugating enzyme E2L 6
219211_at	USP18	11274	ubiquitin specific peptidase 18

Supplemental Table 3b. Interferon stimulated genes identified in the CD8+ T cells

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206133_at	BIRC4BP	54739	XIAP associated factor-1
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			ISGs CD4
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212922_s_at	SMYD2	56950	SET and MYND domain containing 2
210001_s_at	SOCS1	8651	suppressor of cytokine signaling 1
202307_s_at	TAP1	6890	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
35254_at	TRAFD1	10906	TRAF-type zinc finger domain containing 1
201649_at	UBE2L6	9246	ubiquitin-conjugating enzyme E2L 6
219211_at	USP18	11274	ubiquitin specific peptidase 18

Supplemental Table 3c. Thymocyte differentiation markers from Lee et. al. study

Affymetrix Probe ID	Entrez Gene Symbol	Entrez Gene ID	Gene	*
204639_at	ADA	100	adenosine deaminase	*
216705_s_at	ADA	100	adenosine deaminase	*
202760_s_at	AKAP2 OR PALM2-AKAP2	11217 OR 445815	A kinase (PRKA) anchor protein 2 OR PALM2-AKAP2 protein	*
202095_s_at	BIRC5	332	baculoviral IAP repeat-containing 5 (survivin)	*
203755_at	BUB1B	701	BUB1 budding uninhibited by benzimidazoles 1 homolog beta (yeast)	*
214710_s_at	CCNB1	891	cyclin B1	*
202705_at	CCNB2	9133	cyclin B2	*
208592_s_at	CD1E	913	CD1E antigen, e polypeptide OR CD1E antigen, e polypeptide	
201028_s_at	CD99	4267	CD99 antigen	*
201029_s_at	CD99	4267	CD99 antigen	*

			ISGs CD4	
203213_at	CDC2	983	Cell division cycle 2, G1 to S and G2 to M	*
203214_x_at	CDC2	983	cell division cycle 2, G1 to S and G2 to M	*
210559_s_at	CDC2	983	cell division cycle 2, G1 to S and G2 to M	*
209714_s_at	CDKN3	1033	cyclin-dependent kinase inhibitor 3 (CDK2-associated dual specificity phosph	*
204962_s_at	CENPA	1058	centromere protein A, 17kDa	*
210821_x_at	CENPA	1058	centromere protein A, 17kDa	*
219036_at	Cep70	80321	p10-binding protein	
204170_s_at	CKS2	1164	CDC28 protein kinase regulatory subunit 2	*
203764_at	DLG7	9787	discs, large homolog 7 (Drosophila)	*
208370_s_at	DSCR1	1827	Down syndrome critical region gene 1	*
215253_s_at	DSCR1	1827	Down syndrome critical region gene 1	*
218585_s_at	DTL	51514	denticleless homolog (Drosophila)	*
220643_s_at	FAIM	55179	Fas apoptotic inhibitory molecule	
218313_s_at	GALNT7	51809	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltran	*
206589_at	GF11	2672	growth factor independent 1	
203560_at	GGH	8836	gamma-glutamyl hydrolase (conjugase, foly/polygammaglutamyl hydrolase)	*
205349_at	GNA15	2769	guanine nucleotide binding protein (G protein), alpha 15 (Gq class)	
218662_s_at	HCAP-G	64151	chromosome condensation protein G	*
218663_at	HCAP-G	64151	chromosome condensation protein G	*
203744_at	HMGB3	3149	high-mobility group box 3	*
207165_at	HMMR	3161	hyaluronan-mediated motility receptor (RHAMM)	*
209709_s_at	HMMR	3161	hyaluronan-mediated motility receptor (RHAMM)	*
204444_at	KIF11	3832	kinesin family member 11	*
219306_at	KIF15	56992	kinesin family member 15	*
209408_at	KIF2C	11004	kinesin family member 2C	*
211519_s_at	KIF2C	11004	kinesin family member 2C	*
204162_at	KNTC2	10403	kinetochore associated 2	*
202107_s_at	MCM2	4171	MCM2 minichromosome maintenance deficient 2, mitotin (<i>S. cerevisiae</i>)	*
204825_at	MELK	9833	maternal embryonic leucine zipper kinase	*
202974_at	MPP1	4354	membrane protein, palmitoylated 1, 55kDa	
204798_at	MYB	4602	v-myc myeloblastosis viral oncogene homolog (avian)	*
204641_at	NEK2	4751	NIMA (never in mitosis gene a)-related kinase 2	*
211080_s_at	NEK2	4751	NIMA (never in mitosis gene a)-related kinase 2 OR NIMA (never in mitosis g	*
218039_at	NUSAP1	51203	nucleolar and spindle associated protein 1	*
219978_s_at	NUSAP1	51203	nucleolar and spindle associated protein 1	*
213599_at	OIP5	11339	Opa interacting protein 5	*
202759_s_at	PALM2-AKAP2	445815	PALM2-AKAP2 protein	*
219148_at	PBK	55872	PDZ binding kinase	*
206344_at	PON1	5444	paraoxonase 1	*
218009_s_at	PRC1	9055	protein regulator of cytokinesis 1	*
203554_x_at	PTTG1	9232	pituitary tumor-transforming 1	*
204146_at	RAD51AP1	10635	RAD51 associated protein 1	*
201890_at	RRM2	6241	ribonucleotide reductase M2 polypeptide	*
209773_s_at	RRM2	6241	ribonucleotide reductase M2 polypeptide	*
209610_s_at	SLC1A4	6509	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	*
212810_s_at	SLC1A4	6509	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	*
212811_x_at	SLC1A4	6509	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	*
208079_s_at	STK6	6790	serine/threonine kinase 6	*
203588_s_at	TFDP2	7029	transcription factor Dp-2 (E2F dimerization partner 2)	*
203589_s_at	TFDP2	7029	transcription factor Dp-2 (E2F dimerization partner 2)	*
205347_s_at	TMSL8	11013	thymosin-like 8	*
201291_s_at	TOP2A	7153	topoisomerase (DNA) II alpha 170kDa	*
201292_at	TOP2A	7153	topoisomerase (DNA) II alpha 170kDa	*
204822_at	TTK	7272	TTK protein kinase	*
208977_x_at	TUBB2	10383	tubulin, beta, 2	*
213726_x_at	TUBB2	10383	tubulin, beta, 2	*
202589_at	TYMS	7298	thymidylate synthetase	*
202954_at	UBE2C	11065	ubiquitin-conjugating enzyme E2C	*
209053_s_at	WHSC1	7468	Wolf-Hirschhorn syndrome candidate 1	*
209054_s_at	WHSC1	7468	Wolf-Hirschhorn syndrome candidate 1	*
208636_at	ACTN1	87	Actinin, alpha 1	
208637_x_at	ACTN1	87	actinin, alpha 1	
211160_x_at	ACTN1	87	actinin, alpha 1	
206385_s_at	ANK3	288	ankyrin 3, node of Ranvier (ankyrin G)	
207950_s_at	ANK3	288	ankyrin 3, node of Ranvier (ankyrin G)	
209442_x_at	ANK3	288	ankyrin 3, node of Ranvier (ankyrin G)	
215314_at	ANK3	288	Ankyrin 3, node of Ranvier (ankyrin G)	
206337_at	CCR7	1236	chemokine (C-C motif) receptor 7 OR chemokine (C-C motif) receptor 7	
204489_s_at	CD44	960	CD44 antigen (homing function and Indian blood group system)	
204490_s_at	CD44	960	CD44 antigen (homing function and Indian blood group system)	
209835_x_at	CD44	960	CD44 antigen (homing function and Indian blood group system)	
210916_s_at	CD44	960	CD44 antigen (homing function and Indian blood group system)	
212014_x_at	CD44	960	CD44 antigen (homing function and Indian blood group system)	
212063_at	CD44	960	CD44 antigen (homing function and Indian blood group system)	
216062_at	CD44	960	CD44 antigen (Indian blood group)	
217523_at	CD44	960	CD44 antigen (homing function and Indian blood group system)	
213295_at	CYLD	1540	Cylindromatosis (turban tumor syndrome)	
214272_at	CYLD	1540	Cylindromatosis (turban tumor syndrome)	
221903_s_at	CYLD	1540	cylindromatosis (turban tumor syndrome)	
221905_at	CYLD	1540	cylindromatosis (turban tumor syndrome)	
222142_at	CYLD	1540	cylindromatosis (turban tumor syndrome)	
39582_at	CYLD	1540	Cylindromatosis (turban tumor syndrome)	
60084_at	CYLD	1540	cylindromatosis (turban tumor syndrome)	

			ISGs CD4
205419_at	EBI2	1880	Epstein-Barr virus induced gene 2 (lymphocyte-specific G protein-coupled receptor)
204642_at	EDG1	1901	endothelial differentiation, sphingolipid G-protein-coupled receptor, 1
203729_at	EMP3	2014	epithelial membrane protein 3
202723_s_at	FOXO1A	2308	forkhead box O1A (rhabdomyosarcoma)
202724_s_at	FOXO1A	2308	forkhead box O1A (rhabdomyosarcoma)
202748_at	GBP2	2634	guanylate binding protein 2, interferon-inducible OR guanylate binding protein 2, interfero
219243_at	GIMAP4	55303	GTPase, IMAP family member 4
207651_at	GPR171	29909	G protein-coupled receptor 171
206082_at	HCP5	10866	HLA complex P5
213932_x_at	HLA-A	3105	Major histocompatibility complex, class I, A
215313_x_at	HLA-A	3105	major histocompatibility complex, class I, A
208729_x_at	HLA-B	3106	major histocompatibility complex, class I, B
209140_x_at	HLA-B	3106	major histocompatibility complex, class I, B
211911_x_at	HLA-B	3106	major histocompatibility complex, class I, B OR major histocompatibility complex, class I,
208812_x_at	HLA-C	3107	major histocompatibility complex, class I, C
211799_x_at	HLA-C	3107	major histocompatibility complex, class I, C
214459_x_at	HLA-C	3107	major histocompatibility complex, class I, C
216526_x_at	HLA-C	3107	major histocompatibility complex, class I, C
200904_at	HLA-E	3133	major histocompatibility complex, class I, E
200905_x_at	HLA-E	3133	major histocompatibility complex, class I, E
217456_x_at	HLA-E	3133	major histocompatibility complex, class I, E
204806_x_at	HLA-F	3134	major histocompatibility complex, class I, F
221875_x_at	HLA-F	3134	major histocompatibility complex, class I, F
221978_at	HLA-F	3134	major histocompatibility complex, class I, F
202098_s_at	HRMT1L1	3275	HMT1 hnRNP methyltransferase-like 1 (<i>S. cerevisiae</i>)
221564_at	HRMT1L1	3275	HMT1 hnRNP methyltransferase-like 1 (<i>S. cerevisiae</i>)
201565_s_at	ID2	3398	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
201566_x_at	ID2 OR ID2B	3398 OR 84099	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein OR inhibitor of DNA
213931_at	ID2 OR ID2B	3398 OR 84099	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein OR inhibitor of DNA
201315_x_at	IFITM2	10581	interferon induced transmembrane protein 2 (1-8D)
205926_at	IL27RA	9466	interleukin 27 receptor, alpha
222062_at	IL27RA	9466	interleukin 27 receptor, alpha
203233_at	IL4R	3566	interleukin 4 receptor
205945_at	IL6R	3570	interleukin 6 receptor OR interleukin 6 receptor
217489_s_at	IL6R	3570	interleukin 6 receptor
219371_s_at	KLF2	10365	Kruppel-like factor 2 (lung)
221790_s_at	LDLRAP1	26119	low density lipoprotein receptor adaptor protein 1
57082_at	LDLRAP1	26119	low density lipoprotein receptor adaptor protein 1
209840_s_at	LRRN3	54674	leucine rich repeat neuronal 3
209841_s_at	LRRN3	54674	leucine rich repeat neuronal 3
214180_at	MAN1C1	57134	mannosidase, alpha, class 1C, member 1
218918_at	MAN1C1	57134	mannosidase, alpha, class 1C, member 1
203413_at	NELL2	4753	NEL-like 2 (chicken) OR NEL-like 2 (chicken)
211066_x_at	R PCDHGB2 OR PCDHGB1 C OR 56105 OR 56106 OF protocadherin gamma subfamily C, 3		
215836_s_at	R PCDHGB2 OR PCDHGB1 C OR 56105 OR 56106 OF protocadherin gamma subfamily C, 3 OR protocadherin gamma subfamily B, 4 OR protoc		
216069_at	PRMT2	3275	Protein arginine methyltransferase 2
209606_at	PSCDBP	9595	pleckstrin homology, Sec7 and coiled-coil domains, binding protein OR pleckstrin homolo
209694_at	PTS	5805	6-pyruvoyltetrahydropterin synthase
217983_s_at	RNASET2	8635	ribonuclease T2
217984_at	RNASET2	8635	ribonuclease T2
220096_at	RNASET2	8635	ribonuclease T2
204502_at	SAMHD1	25939	SAM domain and HD domain 1
218793_s_at	SCML1	6322	sex comb on midleg-like 1 (<i>Drosophila</i>)
46665_at	SEMA4C	54910	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytop
202497_x_at	SLC2A3	6515	solute carrier family 2 (facilitated glucose transporter), member 3
202498_s_at	SLC2A3	6515	solute carrier family 2 (facilitated glucose transporter), member 3
202499_s_at	SLC2A3	6515	solute carrier family 2 (facilitated glucose transporter), member 3
202693_s_at	STK17A	9263	serine/threonine kinase 17a (apoptosis-inducing)
202695_s_at	STK17A	9263	serine/threonine kinase 17a (apoptosis-inducing)
203386_at	TBC1D4	9882	TBC1 domain family, member 4
203387_s_at	TBC1D4	9882	TBC1 domain family, member 4
211282_x_at	TNFRSF25	8718	tumor necrosis factor receptor superfamily, member 25
211841_s_at	TNFRSF25	8718	tumor necrosis factor receptor superfamily, member 25
216042_at	TNFRSF25	8718	tumor necrosis factor receptor superfamily, member 25
219423_x_at	TNFRSF25	8718	tumor necrosis factor receptor superfamily, member 25
210847_x_at	TNFRSF25 OR PLEKHG5	57449 OR 8718	tumor necrosis factor receptor superfamily, member 25 OR pleckstrin homology domain c
206150_at	TNFRSF7	939	tumor necrosis factor receptor superfamily, member 7 OR tumor necrosis factor receptor
202687_s_at	TNFSF10	8743	tumor necrosis factor (ligand) superfamily, member 10 OR tumor necrosis factor (ligand) :
202688_at	TNFSF10	8743	tumor necrosis factor (ligand) superfamily, member 10 OR tumor necrosis factor (ligand) :
214329_x_at	TNFSF10	8743	tumor necrosis factor (ligand) superfamily, member 10 OR tumor necrosis factor (ligand) :
212242_at	TUBA1	7277	tubulin, alpha 1 (testis specific)