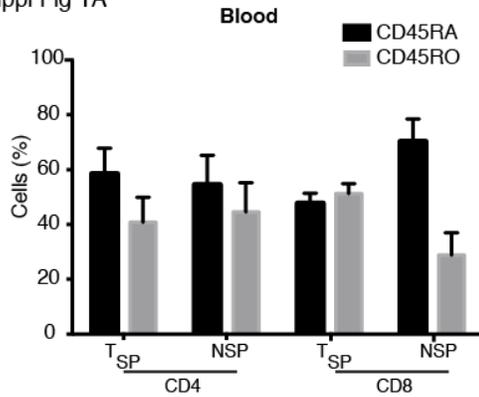
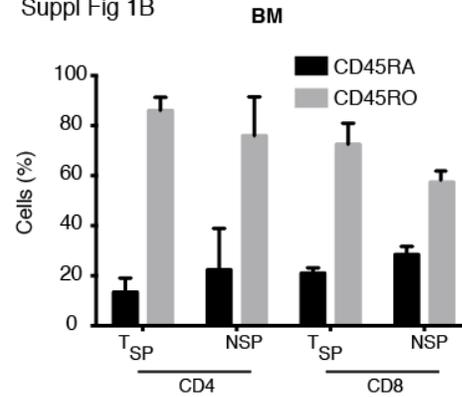


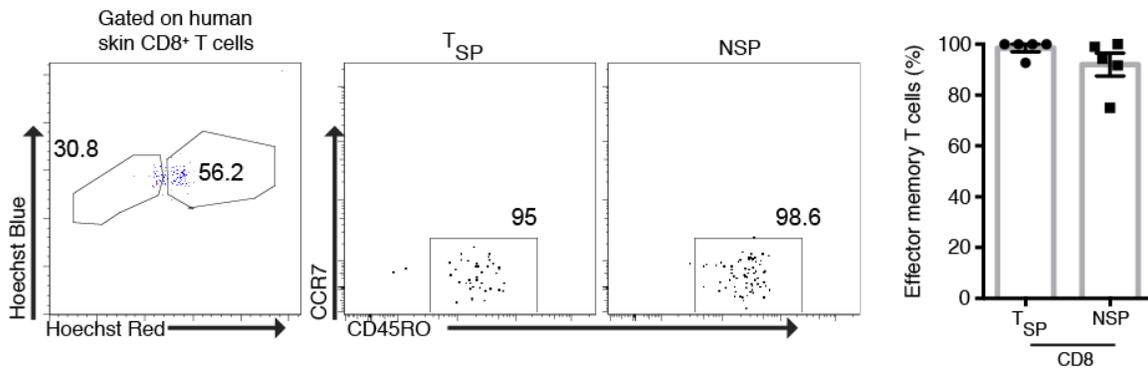
Suppl Fig 1A



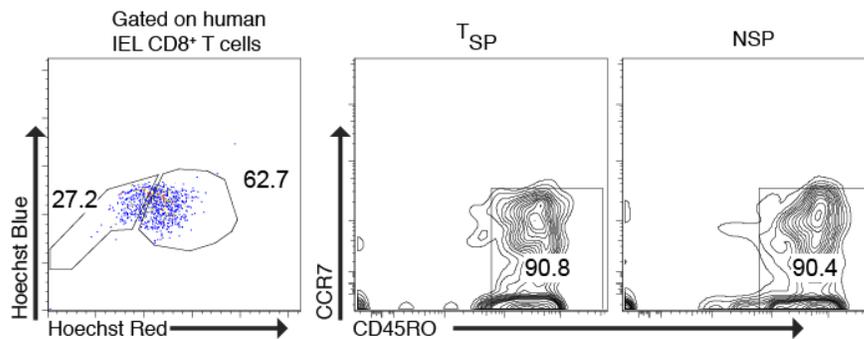
Suppl Fig 1B



Suppl Fig 1C

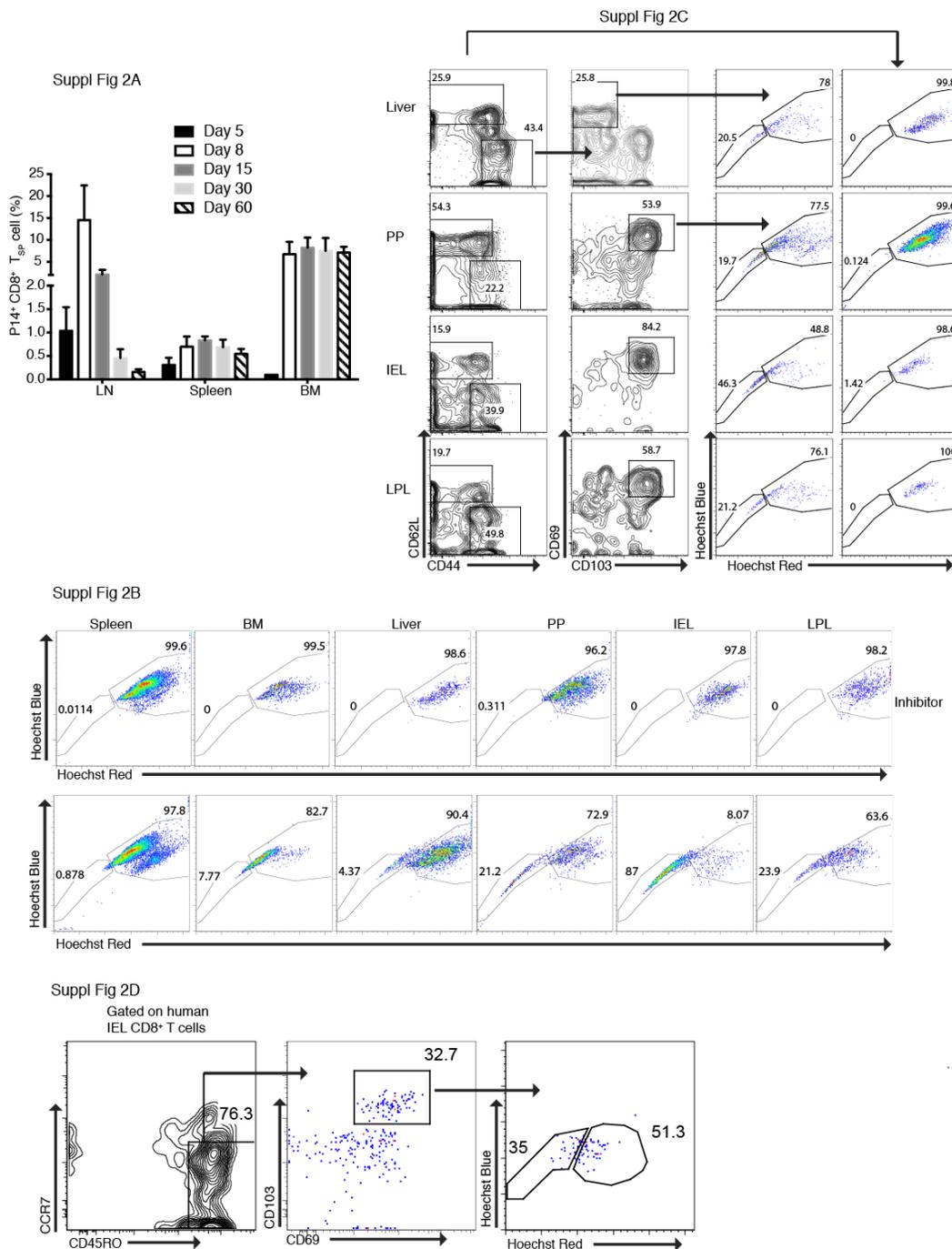


Suppl Fig 1D



### Supplementary Fig.1. Phenotype of T<sub>sp</sub> and NSP cells from human blood, BM and skin

Graph shows proportion of CD45RA<sup>+</sup> and CD45RO<sup>+</sup> cells in T<sub>SP</sub> and NSP fractions of CD4 or CD8 T cells in (A) human blood, (B) bone marrow T cells. Graphs represent compiled data from 4 to 5 human blood and BM samples. (C) FACS analysis on skin CD8 T<sub>SP</sub> and NSP cells, bar graph showing enrichment of effector memory phenotype (CD45RO<sup>+</sup>CCR7<sup>-</sup>CD62L<sup>-</sup>) in CD8 T<sub>SP</sub> and NSP fractions, bar graph represents the compiled data (n=5). (D) Representative Flow analysis on IEL CD8 T<sub>SP</sub> and NSP cells for effector phenotype. Experiments were repeated for 3-4 independent human IEL samples.

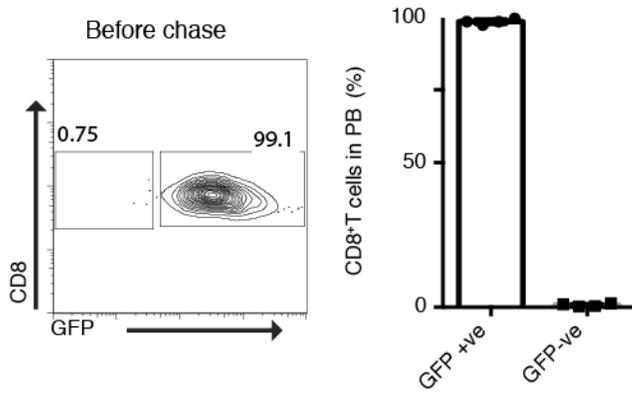


### Supplementary Fig.2. Kinetics of CD8 T<sub>SP</sub> in mice

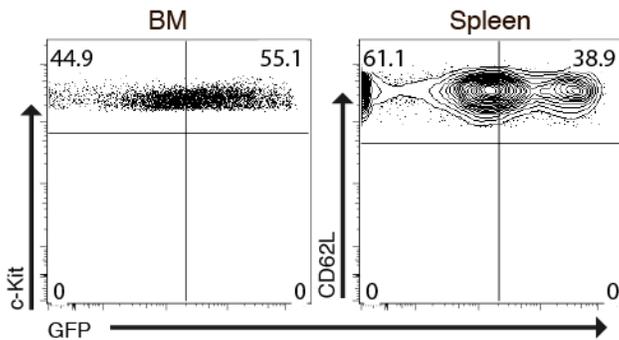
P14 chimeras were infected with LCMV-arm and analyzed sequentially. **(A)** Bar graph documents kinetics of P14 CD8 T<sub>SP</sub> at day 5, 8, 15, 30 and 60 (p.i) in LN, spleen and BM of infected mice. **(B)** FACS analysis detecting P14<sup>+</sup> CD8<sup>+</sup> T<sub>SP</sub> in different organs at day 30 (p.i) (bottom panel), complete absence of P14 CD8 T<sub>SP</sub> when treated with inhibitor (top panel). **(C)** SP analysis on P14<sup>+</sup> CD8<sup>+</sup> T<sub>RM</sub> and non T<sub>RM</sub> cells from liver, PP, IEL and LPL. Experiment was performed with

n=3 mice for each group. (D) FACS plot indicates detection of SP phenotype on human IEL CD8 T<sub>RM</sub> cells. Experiment repeated 6 times, representative FACS analysis is documented over here.

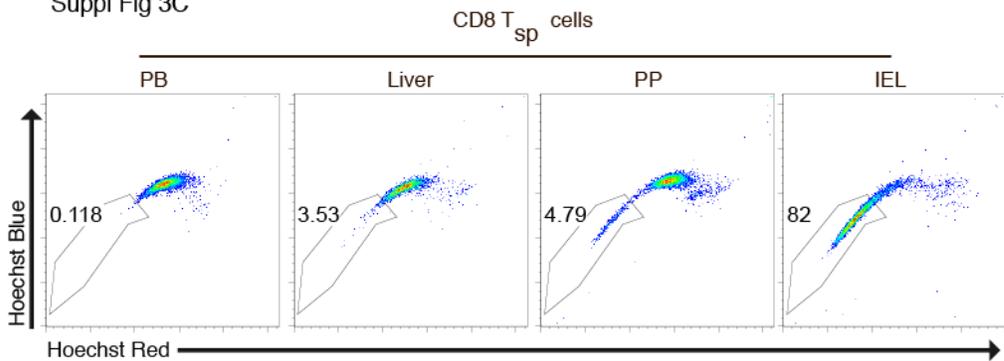
Suppl Fig 3A



Suppl Fig 3B



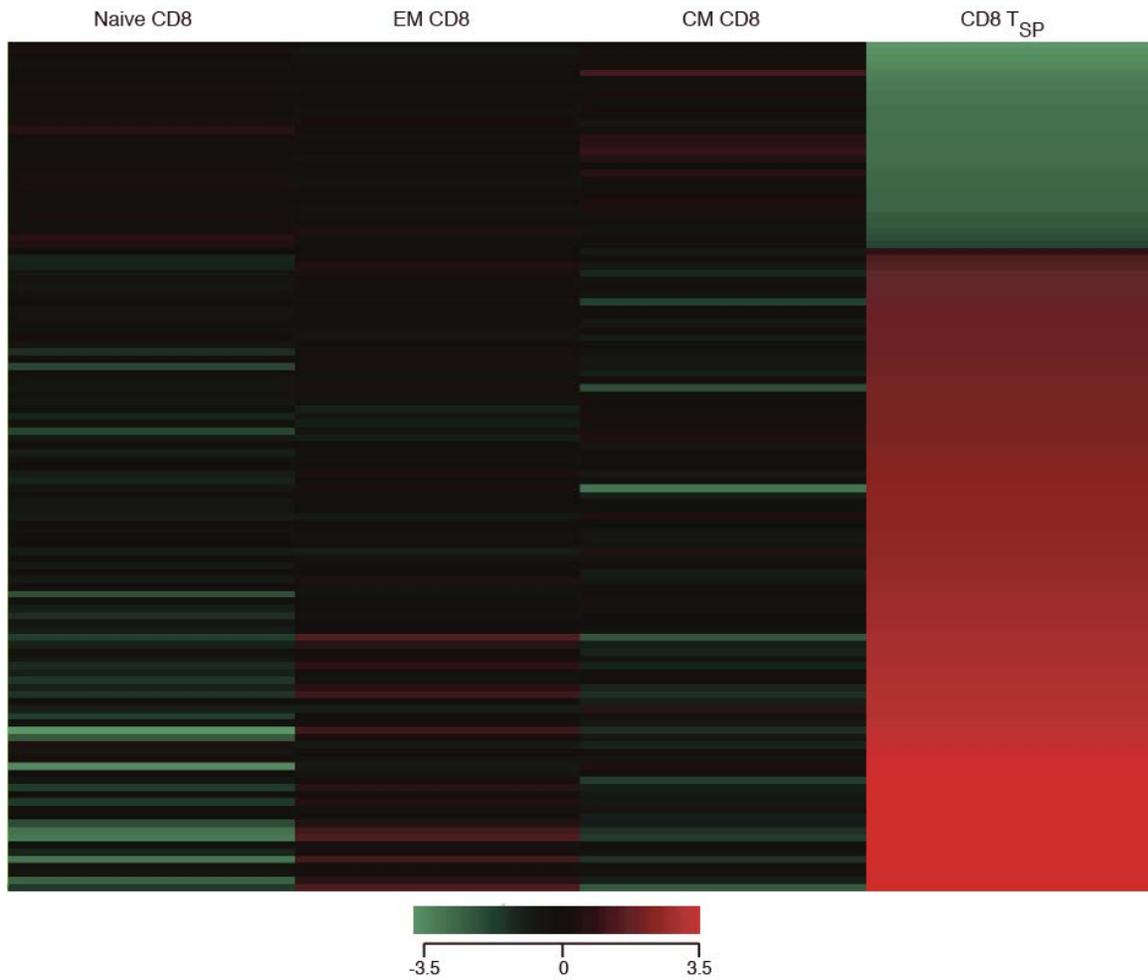
Suppl Fig 3C



### Supplementary Fig.3. H2B GFP label retention analysis

(A) FACS plot shows GFP label on blood CD8 T cells before chase, the same is documented as bar graph. (B) GFP label retention in the bone marrow c-Kit<sup>+</sup> cells (left) and spleen naïve CD44<sup>-</sup> CD62L<sup>+</sup> cells (right). (C) SP analysis of CD8 T cells from Blood, liver, PP and IEL. Experiments were repeated twice with n=4, data presented here from one of the two experiments.

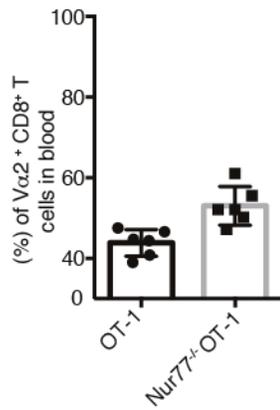
Suppl Fig 4



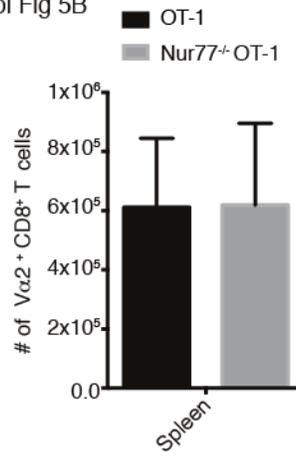
**Supplementary Fig.4. Heat map comparing gene expression profile of T<sub>SP</sub> versus other T cell subsets.**

Heat map of differentially expressed genes between CD8<sup>+</sup> T<sub>SP</sub> and naïve, EM and CM (Fold change > 4). The list of T<sub>SP</sub> signature genes is noted in supplementary table 1.

Suppl Fig 5A

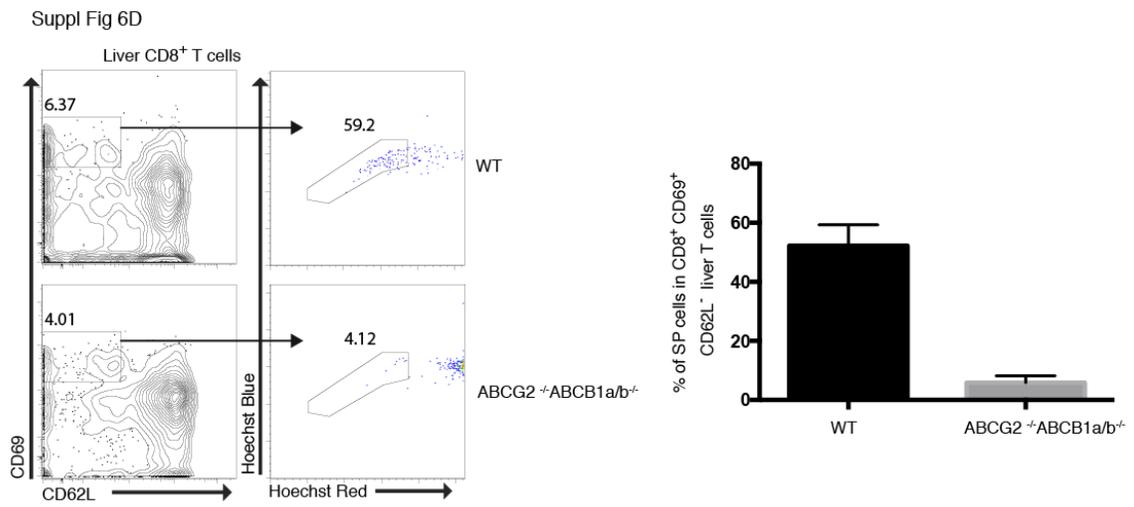
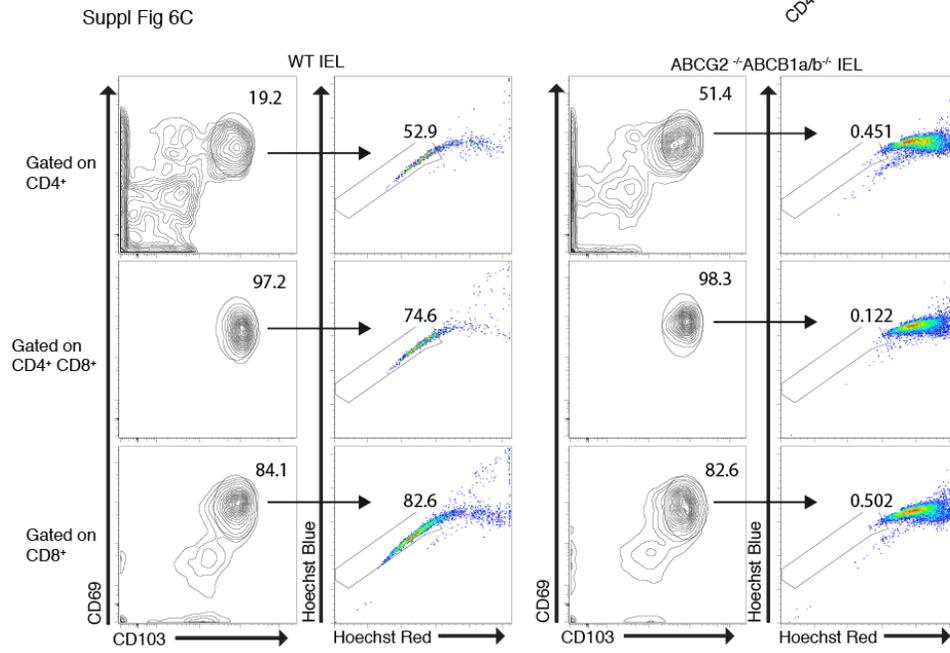
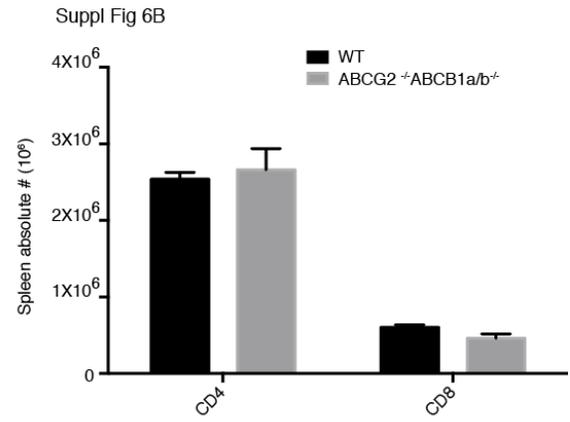
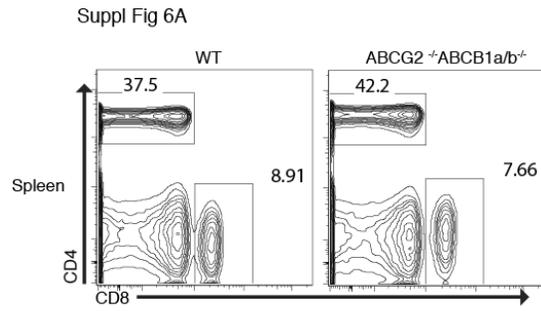


Suppl Fig 5B

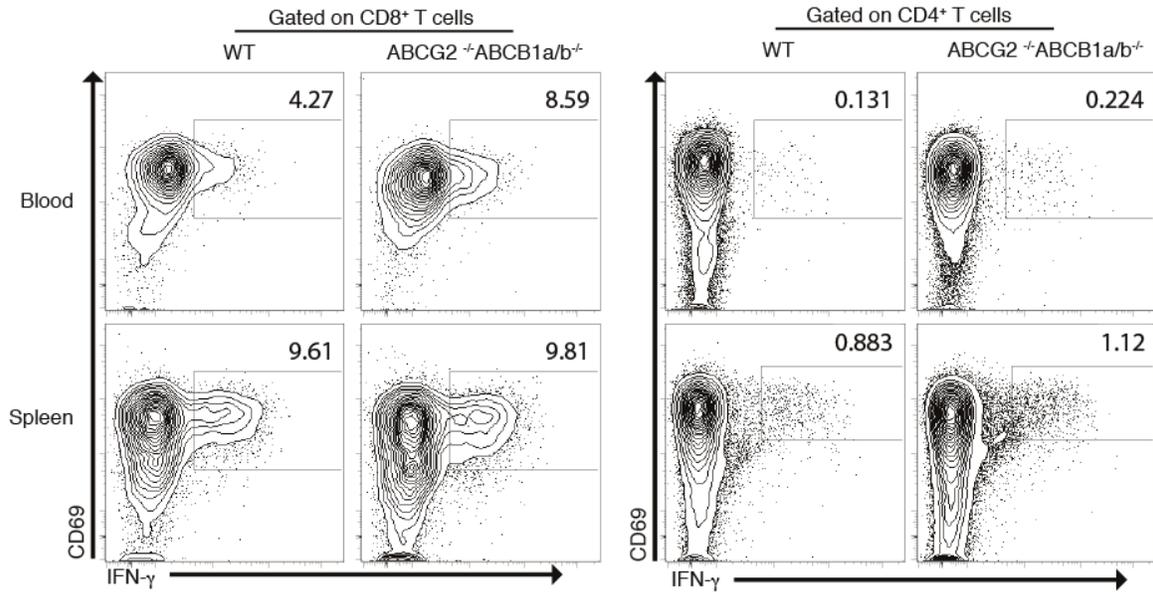


**Supplementary Fig. 5. Analysis of Flu-ova infected mice**

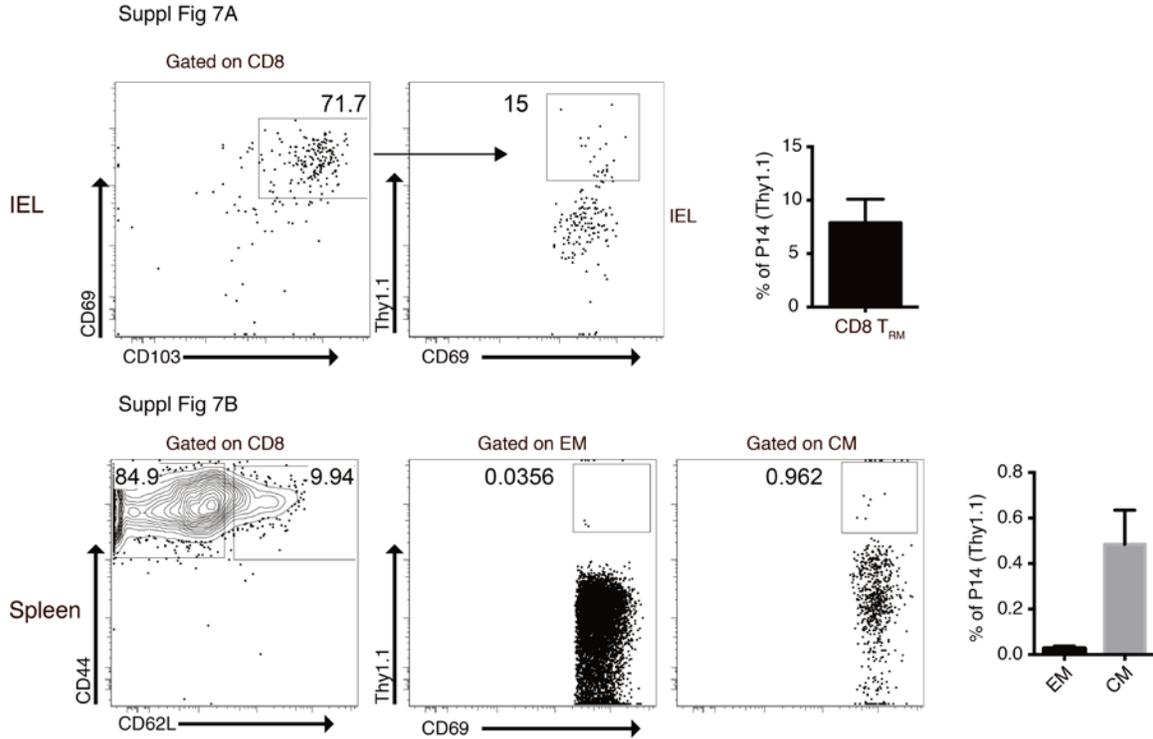
(A) Bar graph represents Vα2 CD8<sup>+</sup> T cell chimerism in blood at day 8 after Flu ova infection. (B) Graph documents the same in spleen at Day 14 post infection. Experiment was repeated twice with n=3 mice for each group, compiled data from two experiments was documented above.



Suppl Fig 6E



**Supplementary Fig.6. SP analysis in WT and ABCG2<sup>-/-</sup> ABCB1a/b<sup>-/-</sup> mice**  
(A) FACS plot comparing CD4 and CD8 frequency in WT and ABCG2<sup>-/-</sup> ABCB1a/b<sup>-/-</sup> mice, the same is plotted in graph (B). (C) FACS plot shows WT IEL CD4 and CD8 T<sub>RM</sub> cells with SP phenotype that is completely absent in IELs from ABCG2<sup>-/-</sup> ABCB1a/b<sup>-/-</sup> mice. (D) Representative FACS analysis and bar graph documents the same in liver. (E) IFN- $\gamma$  production from blood and spleen CD4<sup>+</sup>, CD8<sup>+</sup> T cells was compared between WT and ABCG2<sup>-/-</sup> ABCB1a/b<sup>-/-</sup> mice. Experiments are repeated twice with 3 to 4 mice each, graphs represent data from one experiment (n=4 mice)



**Supplementary Fig.7. Generation of gut tissue resident memory (T<sub>RM</sub>) cells by adoptive transfer of SP CD8 T cells**

(A) FACS plot represent the percent of Thy1.1<sup>+</sup> CD8 T cells in IEL CD69<sup>+</sup> CD103<sup>+</sup> T<sub>RM</sub> cells, summary of data is presented as bar graph (n=5). (B) FACS analysis displays the percent Thy1.1<sup>+</sup> CD8 T cells in splenic T<sub>EM</sub> and T<sub>CM</sub> compartment. Combined analysis is shown in bar graph (n=5).

## Differentially expressed genes between CD8 TSP vs other substes (Naïve, TEM and TCM) with fold change > 4

Probe Set ID	Entrez Gene	Gene Symbol	Gene Title	Chromosomal Location	CD8 SP vs CD8Naive ( Fold change >= 4.0)	CD8 SP vs CD8 Naive ( Fold change >= 4.0)	CD8 SP vs CD8 EM ( Fold change >= 4.0)	CD8 SP vs CD8 EM ( Fold change >= 4.0)	CD8SP vs CD8 CM ( Fold change >= 4.0)
201694_s_at	1958	EGR1	early growth response 1	chr5q31.1	355.5871	9.474059	51.15658	51.15658	124.87742
206115_at	1960	EGR3	early growth response 3	chr8p23-p21	289.78473	9.178838	38.253395	38.253395	504.18884
205476_at	6364	CCL20	chemokine (C-C motif) ligand 20	chr2q36.3	270.70932	9.080601	30.37064	30.37064	70.05293
204103_at	6351	CCL4	chemokine (C-C motif) ligand 4	chr17q12	196.91464	8.6214266	4.272974	4.272974	20.440428
207113_s_at	7124	TNF	tumor necrosis factor	chr6p21.3	126.245674	7.98009	14.664831	14.664831	48.19655
205249_at	1959	EGR2	early growth response 2	chr10q21.1	107.77646	7.7518983	6.0749693	6.0749693	60.476353
204141_at	7280	TUBB2A	tubulin, beta 2A class IIa	chr6p25	65.34731	7.030056	10.428625	10.428625	9.634062
204622_x_at	4929	NR4A2	nuclear receptor subfamily 4, group A, member 2	chr2q22-q23	54.601883	6.770879	15.674133	15.674133	46.64736
216248_s_at	4929	NR4A2	nuclear receptor subfamily 4, group A, member 2	chr2q22-q23	53.58953	6.7438793	15.962476	15.962476	46.797432
204621_s_at	4929	NR4A2	nuclear receptor subfamily 4, group A, member 2	chr2q22-q23	51.97353	6.699705	18.666348	18.666348	45.962627
201693_s_at	1958	EGR1	early growth response 1	chr5q31.1	51.154873	6.6768	39.128742	39.128742	52.97839
209959_at	8013	NR4A3	nuclear receptor subfamily 4, group A, member 3	chr9q22	46.40343	6.5361595	20.578075	20.578075	54.392975
227404_s_at	1958	EGR1	early growth response 1	chr5q31.1	44.67448	6.481379	39.543037	39.543037	40.120064
209301_at	760	CA2	carbonic anhydrase II	chr8q22	32.94041	6.0417867	7.0097632	7.0097632	32.982986
214696_at	84981///407004	MIR22///MIR22HG	microRNA 22///MIR22 host gene (non-protein coding)	chr17p13.3	30.229372	5.917879	6.1357107	6.1357107	12.3511715
201631_s_at	8870	IER3	immediate early response 3	chr6p21.3	27.202187	5.7656507	9.576074	9.576074	18.72205
204170_s_at	1164	CKS2	CDC28 protein kinase regulatory subunit 2	chr9q22	24.957727	5.6414146	18.127895	18.127895	23.489655
1555847_a_at	284454	LOC284454	uncharacterized LOC284454	chr19p13.13	23.94513	5.5816603	6.1539874	6.1539874	9.336185
211538_s_at	3306	HSPA2	heat shock 70kDa protein 2	chr14q24.1	21.163752	5.4035234	21.78429	21.78429	19.529013
202768_at	2354	FOSB	FBJ murine osteosarcoma viral oncogene homolog B	chr19q13.32	20.526165	5.359392	16.849552	16.849552	10.563432
201324_at	2012	EMP1	epithelial membrane protein 1	chr12p12.3	20.480429	5.356174	9.242455	9.242455	30.256481

203725_at	1647	GADD45A	growth arrest and DNA-damage-inducible, alpha	chr1p31.2	19.194828	5.2626457	5.743819	5.743819	5.754538
226777_at	8038///1009 67225	ADAM12/// ADAM12- OT1	ADAM metalloproteinase domain 12///ADAM12 overlapping transcript 1 (non-protein coding)	chr10q26.2///chr10q2 6.3	18.11175	5.178854	5.7755084	5.7755084	15.916521
202672_s_at	467	ATF3	activating transcription factor 3	chr1q32.3	14.561832	4.86412	8.323889	8.323889	23.341032
206683_at	7718	ZNF165	zinc finger protein 165	chr6p21.3	14.351564	4.843136	16.481129	16.481129	7.969202
205239_at	374///72773 8	AREG///ARE GB	amphiregulin///amphiregulin B	chr4q13.3	14.213691	4.8292093	13.109322	13.109322	12.483153
207978_s_at	8013	NR4A3	nuclear receptor subfamily 4, group A, member 3	chr9q22	13.687983	4.774838	10.182067	10.182067	11.195989
224657_at	54206	ERRF1	ERBB receptor feedback inhibitor 1	chr1p36	13.554325	4.7606814	5.3092318	5.3092318	5.3449774
212558_at	10252	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	chr4q28.1	13.262747	4.7293077	8.5359125	8.5359125	8.022035
213975_s_at	4069	LYZ	lysozyme	chr12q15	13.113254	4.7129538	5.4884505	5.4884505	7.1658773
238542_at	80328	ULBP2	UL16 binding protein 2	chr6q25	12.617626	4.6573687	6.9703155	6.9703155	10.107688
230966_at	259307	IL4I1	interleukin 4 induced 1	chr19q13.3-q13.4	11.728041	4.5518901	5.5644503	5.5644503	9.15149
241824_at					11.376574	4.5079942	5.3485584	5.3485584	10.498419
202284_s_at	1026	CDKN1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	chr6p21.2	11.2014885	4.4856186	6.066156	6.066156	10.663784
1559249_at	6310	ATXN1	ataxin 1	chr6p23	10.998722	4.459264	4.4999056	4.4999056	4.06728
211583_x_at	259197	NCR3	natural cytotoxicity triggering receptor 3	chr6p21.3	10.955801	4.453623	4.1315193	4.1315193	5.778989
230052_s_at	84807	NFKBID	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, delta	chr19q13.12	10.664459	4.414739	7.9631886	7.9631886	9.268031
223394_at	29950	SERTAD1	SERTA domain containing 1	chr19q13.1-q13.2	10.461591	4.3870304	8.963221	8.963221	13.052696
201939_at	10769	PLK2	polo-like kinase 2	chr5q12.1-q13.2	10.437913	4.3837614	11.050534	11.050534	12.048437
204472_at	2669	GEM	GTP binding protein overexpressed in skeletal muscle	chr8q13-q21	10.275794	4.361178	13.535637	13.535637	11.746499
210763_x_at	259197	NCR3	natural cytotoxicity triggering receptor 3	chr6p21.3	10.244114	4.3567233	4.3087697	4.3087697	5.2594666
223484_at	84419	C15orf48	chromosome 15 open reading frame 48	chr15q21.1	10.171895	4.3465166	4.6200757	4.6200757	15.595555

210873_x_at	200315///10 0913187	APOBEC3A// /APOBEC3A _B	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3A///APOBEC3A and APOBEC3B deletion hybrid regulator of G-protein signaling 16	chr22q13 GRCh37 novel patch///chr22q13.1- q13.2	10.048314	4.3288815	7.612218	7.612218	15.065396
209324_s_at	6004	RGS16		chr1q25-q31	10.046491	4.3286197	4.49998	4.49998	12.079825
224185_at		OTTHUMG0 0000178019 ///RP11- 199F11.2	NULL///NULL		9.966646	4.3171082	10.078484	10.078484	7.8313017
218368_s_at	51330	TNFRSF12A	tumor necrosis factor receptor superfamily, member 12A	chr16p13.3	9.679141	4.274879	5.7799697	5.7799697	6.4189095
202154_x_at	10381	TUBB3	tubulin, beta 3 class III	chr16q24.3	9.572596	4.2589102	4.803158	4.803158	7.1958427
214710_s_at	891	CCNB1	cyclin B1	chr5q12	9.534717	4.25319	7.997006	7.997006	4.5271425
230233_at					9.383252	4.230088	10.817796	10.817796	13.089007
208977_x_at	10383	TUBB4B	tubulin, beta 4B class IVb	chr9q34	9.37511	4.2288356	4.777498	4.777498	8.135268
202779_s_at	27338	UBE2S	ubiquitin-conjugating enzyme E2S	chr19q13.43	9.333766	4.2224593	5.9901953	5.9901953	6.241909
207768_at	1961	EGR4	early growth response 4	chr2p13	9.061656	4.1797748	7.19181	7.19181	6.4962726
235102_x_at	26851///780 851///78085 2///780853/ //780854	SNORD3A/// SNORD3B- 1///SNORD3 B- 2///SNORD3 C///SNORD3 D	small nucleolar RNA, C/D box 3A///small nucleolar RNA, C/D box 3B-1///small nucleolar RNA, C/D box 3B- 2///small nucleolar RNA, C/D box 3C///small nucleolar RNA, C/D box 3D	chr17p11.2	9.01752	4.1727307	8.352369	8.352369	10.413363
202340_x_at	3164	NR4A1	nuclear receptor subfamily 4, group A, member 1	chr12q13	8.794142	4.1365428	7.833911	7.833911	10.590924
213726_x_at	10383	TUBB4B	tubulin, beta 4B class IVb	chr9q34	8.675416	4.1169329	4.7794213	4.7794213	7.7755065
213476_x_at	10381	TUBB3	tubulin, beta 3 class III	chr16q24.3	8.199234	4.035489	4.691419	4.691419	6.952917
204011_at	10253	SPRY2	sprouty homolog 2 (Drosophila)	chr13q31.1	8.064626	4.0116076	7.7365823	7.7365823	6.164064
208926_at	4758	NEU1	sialidase 1 (lysosomal sialidase)	chr6p21.3	8.01454	4.0026197	4.935627	4.935627	5.2658467
36711_at	23764	MAFF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)	chr22q13.1	7.9551835	3.9918952	8.256691	8.256691	9.742798
205436_s_at	3014	H2AFX	H2A histone family, member X	chr11q23.3	7.7166157	3.9479682	5.861675	5.861675	5.9614353
201325_s_at	2012	EMP1	epithelial membrane protein 1	chr12p12.3	7.602531	3.9264798	5.0113053	5.0113053	7.8378673
240207_at					7.4801607	3.9030693	7.2756877	7.2756877	5.7175717

244447_at					7.227721	3.853541	5.531211	5.531211	22.668379
1568768_s_at	100302650	BRE-AS1	BRE antisense RNA 1	chr2p23	7.133807	3.8346722	4.065595	4.065595	6.400854
1555938_x_at	7431	VIM	vimentin	chr10p13	6.998464	3.8070383	4.099205	4.099205	4.556003
205193_at	23764	MAFF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)	chr22q13.1	6.751522	3.7552128	6.9516764	6.9516764	8.707857
228868_x_at	81620	CDT1	chromatin licensing and DNA replication factor 1	chr16q24.3	5.982863	3.580836	6.040455	6.040455	5.028311
230380_at	83591	THAP2	THAP domain containing, apoptosis associated protein 2	chr12q21.1	5.9749546	3.5789278	5.538372	5.538372	4.7617364
208078_s_at	150094	SIK1	salt-inducible kinase 1	chr21q22.3	5.887562	3.5576704	7.9521537	7.9521537	7.368583
201739_at	6446	SGK1	serum/glucocorticoid regulated kinase 1	chr6q23	5.884283	3.5568666	14.409118	14.409118	18.657473
244697_at					5.7828712	3.531786	4.6332536	4.6332536	5.898475
236898_at					5.7175794	3.5154045	4.0733852	4.0733852	4.355932
224836_at	58476	TP53INP2	tumor protein p53 inducible nuclear protein 2	chr20q11.22	5.6841	3.506932	5.172248	5.172248	4.9872746
212657_s_at	3557	IL1RN	interleukin 1 receptor antagonist	chr2q14.2	5.61198	3.48851	4.533588	4.533588	7.715889
202912_at	133	ADM	adrenomedullin	chr11p15.4	5.406382	3.4346635	4.584364	4.584364	5.7638273
237784_at	10923	SUB1	SUB1 homolog (S. cerevisiae)	chr5p13.3	5.253787	3.3933578	6.2331	6.2331	6.199801
223767_at	53831	GPR84	G protein-coupled receptor 84	chr12q13.13	5.2222047	3.384659	4.658847	4.658847	5.5034695
202871_at	9618	TRAF4	TNF receptor-associated factor 4	chr17q11-q12	5.214539	3.3825397	4.903262	4.903262	4.1313143
242125_at					5.1581297	3.366848	4.562951	4.562951	6.930153
230123_at	55707	NECAP2	NECAP endocytosis associated 2	chr1p36.13	5.0699673	3.3419764	5.238352	5.238352	4.3349404
203505_at	19	ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1	chr9q31.1	5.047729	3.3356345	5.7408724	5.7408724	7.310459
203504_s_at	19	ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1	chr9q31.1	4.9968443	3.3210173	5.599719	5.599719	6.5666876
1565579_at					4.977727	3.3154871	4.9052024	4.9052024	4.3654556
202393_s_at	7071	KLF10	Kruppel-like factor 10	chr8q22.2	4.9758034	3.3149295	5.0111127	5.0111127	17.111912
216979_at	8013	NR4A3	nuclear receptor subfamily 4, group A, member 3	chr9q22	4.929472	3.301433	4.1314616	4.1314616	4.420495
227943_at					4.8170514	3.2681503	4.5897217	4.5897217	4.422902
230913_at					4.689833	3.2295365	4.5253096	4.5253096	8.386161
242727_at	221079	ARL5B	ADP-ribosylation factor-like 5B	chr10p12.31	4.6144414	3.206156	4.003738	4.003738	4.363214

236105_at	65986	ZBTB10	zinc finger and BTB domain containing 10	chr8q13-q21.1	4.344961	3.1193433	5.197877	5.197877	7.0342
238029_s_at	151473	SLC16A14	solute carrier family 16, member 14	chr2q36.3	4.2332196	3.0817554	4.3372245	4.3372245	5.211846
229983_at	166815	TIGD2	(monocarboxylic acid transporter 14)	chr4q22.1	-4.0928354	-1.0331006	-4.661574	4.661574	-7.464864
204349_at	9443	MED7	tigger transposable element derived 2	chr5q33.3	-4.265854	-1.0928345	-4.538787	4.538787	-4.721471
214820_at	54014	BRWD1	mediator complex subunit 7	chr21q22.2	-4.2691836	-1.0939603	-4.120032	4.120032	-4.5338764
220391_at	79842	ZBTB3	bromodomain and WD repeat domain containing 1	chr11q12.3	-4.49801	-1.169287	-4.5442824	4.5442824	-5.8161073
219889_at	10023	FRAT1	zinc finger and BTB domain containing 3	chr10q24.1	-4.533724	-1.1806965	-5.161925	5.161925	-6.3663826
209828_s_at	3603	IL16	frequently rearranged in advanced T-cell lymphomas	chr15q26.3	-4.680295	-1.2265995	-4.257084	4.257084	-4.2481065
206188_at	9831	ZNF623	interleukin 16	chr8q24.3	-4.6892633	-1.2293613	-4.116435	4.116435	-4.800505
1553815_a_at	170082	TCEANC	zinc finger protein 623	chrXp22.2	-4.6975174	-1.2318985	-4.2914343	4.2914343	-4.392349
229298_at	84078	KBTBD7	transcription elongation factor A (SII) N-terminal and central domain containing	chr13q14.11	-4.748286	-1.2474067	-4.2015104	4.2015104	-6.6184216
219345_at	51027	BOLA1	kelch repeat and BTB (POZ) domain containing 7	chr1q21	-4.8257556	-1.2707548	-4.794643	4.794643	-5.8712077
219467_at	54826	GIN1	bolA homolog 1 (E. coli)	chr5q21.1	-4.8295283	-1.2718823	-4.9347363	4.9347363	-7.310824
230516_at	115416	MALSU1	gypsy retrotransposon integrase 1	chr7p15.3	-5.215315	-1.3827543	-4.551269	4.551269	-4.4153013
204264_at	1376	CPT2	mitochondrial assembly of ribosomal large subunit 1	chr1p32	-5.4366097	-1.4427073	-4.6959305	4.6959305	-6.922564
1554345_a_at	54826	GIN1	carnitine palmitoyltransferase 2	chr5q21.1	-5.4445615	-1.4448159	-5.260183	5.260183	-9.444577
206734_at	8690	JRKL	gypsy retrotransposon integrase 1	chr11q21	-5.606095	-1.4869962	-4.32775	4.32775	-5.287994
229970_at	84078	KBTBD7	jerky homolog-like (mouse)	chr13q14.11	-5.6139197	-1.4890084	-5.0635047	5.0635047	-6.3861938
213596_at	837	CASP4	kelch repeat and BTB (POZ) domain containing 7	chr11q22.2-q22.3	-6.2037377	-1.6331377	-7.172761	7.172761	-5.1375656
206314_at	55888	ZKSCAN7	caspase 4, apoptosis-related cysteine peptidase	chr3p21.32	-6.3473477	-1.666154	-5.236052	5.236052	-7.3039837
			zinc finger with KRAB and SCAN domains 7						

227385_at	403313	PPAPDC2	phosphatidic acid phosphatase type 2 domain containing 2	chr9p24.1	-6.385565		-6.3006616	6.3006616	-6.8605313
205541_s_at	23708	GSPT2	G1 to S phase transition 2	chrXp11.22	-6.655098	-1.6748142	-4.5216727	4.5216727	-7.8936806
236153_at					-6.722345	-1.7344599	-4.393146	4.393146	-5.2560244
218689_at	2188	FANCF	Fanconi anemia, complementation group F	chr11p15	-7.0387664	-1.8153226	-5.167518	5.167518	-6.6596317
226458_at		OTTHUMG0 0000175805 ///RP1- 39G22.7	NULL///NULL		-7.1893835		-4.684105	4.684105	-8.178004
219538_at	54554	WDR5B	WD repeat domain 5B	chr3q21.1	-7.3190475	-1.845868	-4.919258	4.919258	-8.080641
235052_at	126375	ZNF792	zinc finger protein 792	chr19q13.11	-7.3975143	-1.871656	-6.077551	6.077551	-10.900192
219243_at	55303	GIMAP4	GTPase, IMAP family member 4	chr7q36.1	-7.8748164	-1.8870406	-6.079937	6.079937	-7.170238
232094_at	79768	KATNBL1	katanin p80 subunit B-like 1	chr15q14	-8.589153	-1.9772463	-6.079937	6.079937	-7.170238
226756_at	168455	CCDC71L	coiled-coil domain containing 71-like	chr7q22.3	-9.349459	-2.102516	-4.948485	4.948485	-5.0103774
235306_at	155038	GIMAP8	GTPase, IMAP family member 8	chr7q36.1	-11.156089	-2.2248828	-9.173811	9.173811	-10.425746
						-2.4797595	-6.337486	6.337486	-8.024004