TIGIT DGE Analysis

BM

8/2/2021

TIGIT Analysis

Data was obtained from the EGAS00001002839 study and parsed here

Here a DGE analysis is conducted using Limma which can account for variation based on multiple samples derived from the same individual/tumour.

TIGIT Groupings by median log2tpm expression

```
mtd <- metadata_ns_ov %>% dplyr::select(patient_id, NM_173799_TIGIT_group) %>% as.data.frame() %>% tabl
knitr::kable(mtd)
```
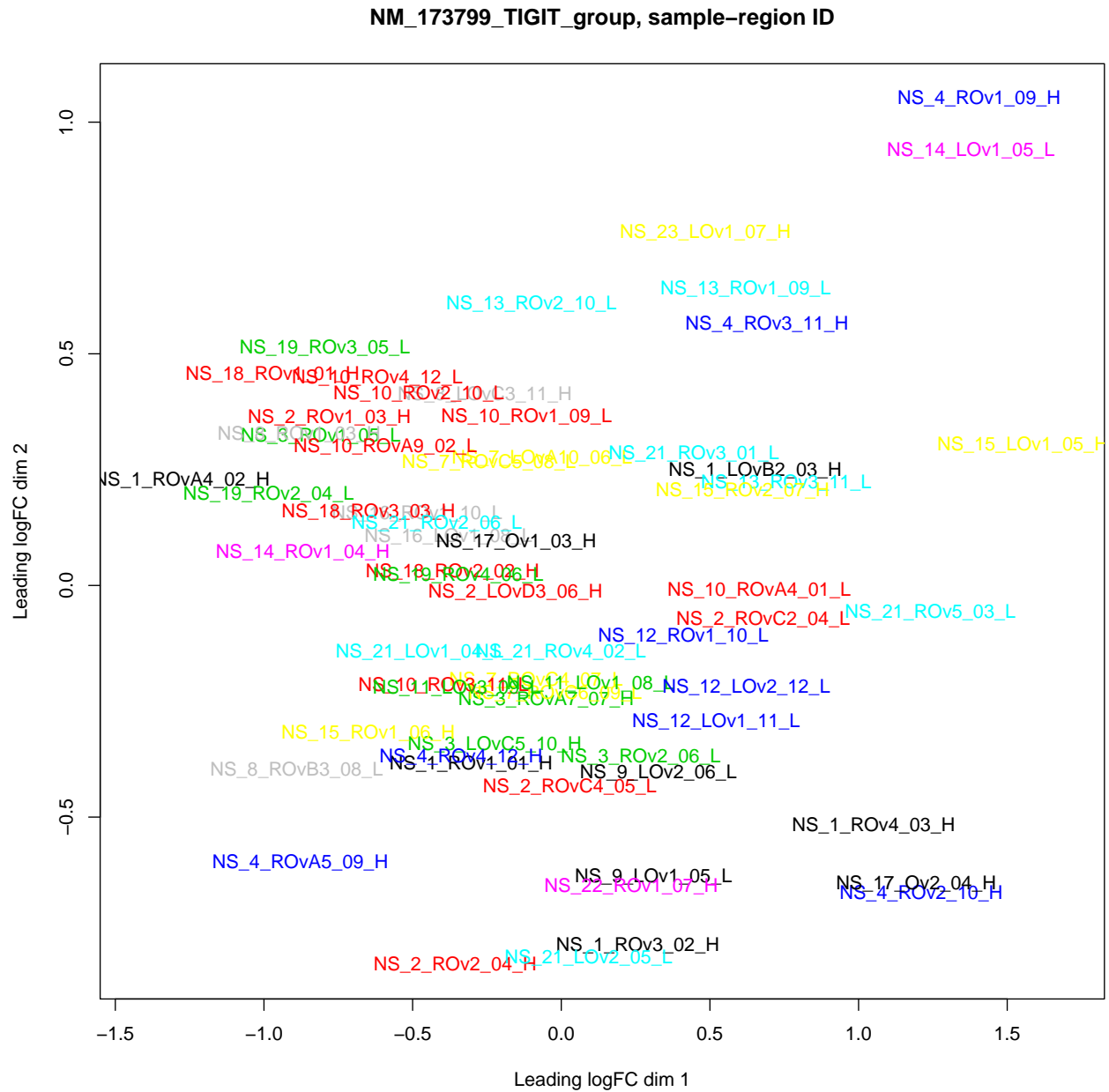
	High	Low
1	5	0
10	0	6
11	0	2
12	0	3
13	0	3
14	1	1
15	3	0
16	0	2
17	2	0
18	3	0
19	0	3
2	3	2
21	0	6
22	1	0
23	1	0
3	2	2
4	5	0
7	0	4
8	2	1
9	0	2

DGE Analysis based on TIGIT median grouping

```r
dge <- edgeR::DGEList(counts = raw_count_ov_dge)
norm_fac <- EGAD00010001515_raw_count_tb %>%
            dplyr::filter(!CodeClass %in% c("Endogenous", "Negative")) %>%
            dplyr::select(!!colnames(raw_count_ov_dge)) %>%
            dplyr::summarise(across(where(is.numeric), sum)) %>%
            dplyr::mutate(across(where(is.numeric), ~ 1 /.x))
dge$samples$norm.factors <- unlist(norm_fac)

##model includes site, sample_type (FFPE, FF) and patient_id
design <- model.matrix(~ 0 + NM_173799_TIGIT_group + sample_type, metadata_ns_ov)
colnames(design) <- make.names(colnames(design))
#keep <- edgeR::filterByExpr(dge, design)
#dge <- dge[keep, keep.lib.sizes=FALSE]
#dge <- edgeR::calcNormFactors(dge)

##MDS plots
col_patient_id <- metadata_ns_ov$patient_id
levels(col_patient_id) <-  sample(rainbow(nlevels(col_patient_id)))
col_patient_id <- as.character(col_patient_id)
lcpm <- edgeR::cpm(dge, log = TRUE, prior.count = 0.5, group = "NM_173799_TIGIT_group")
med_high <- unlist(lapply(strsplit(as.vector(metadata_ns_ov$NM_173799_TIGIT_group),""),function(f){f[1]}
condNames <- paste0(metadata_ns_ov$ns_sample_region_id, "_", med_high)
plotMDS(lcpm, labels = condNames, col = col_patient_id, cex = 1)
title(main="NM_173799_TIGIT_group, sample-region ID")
```
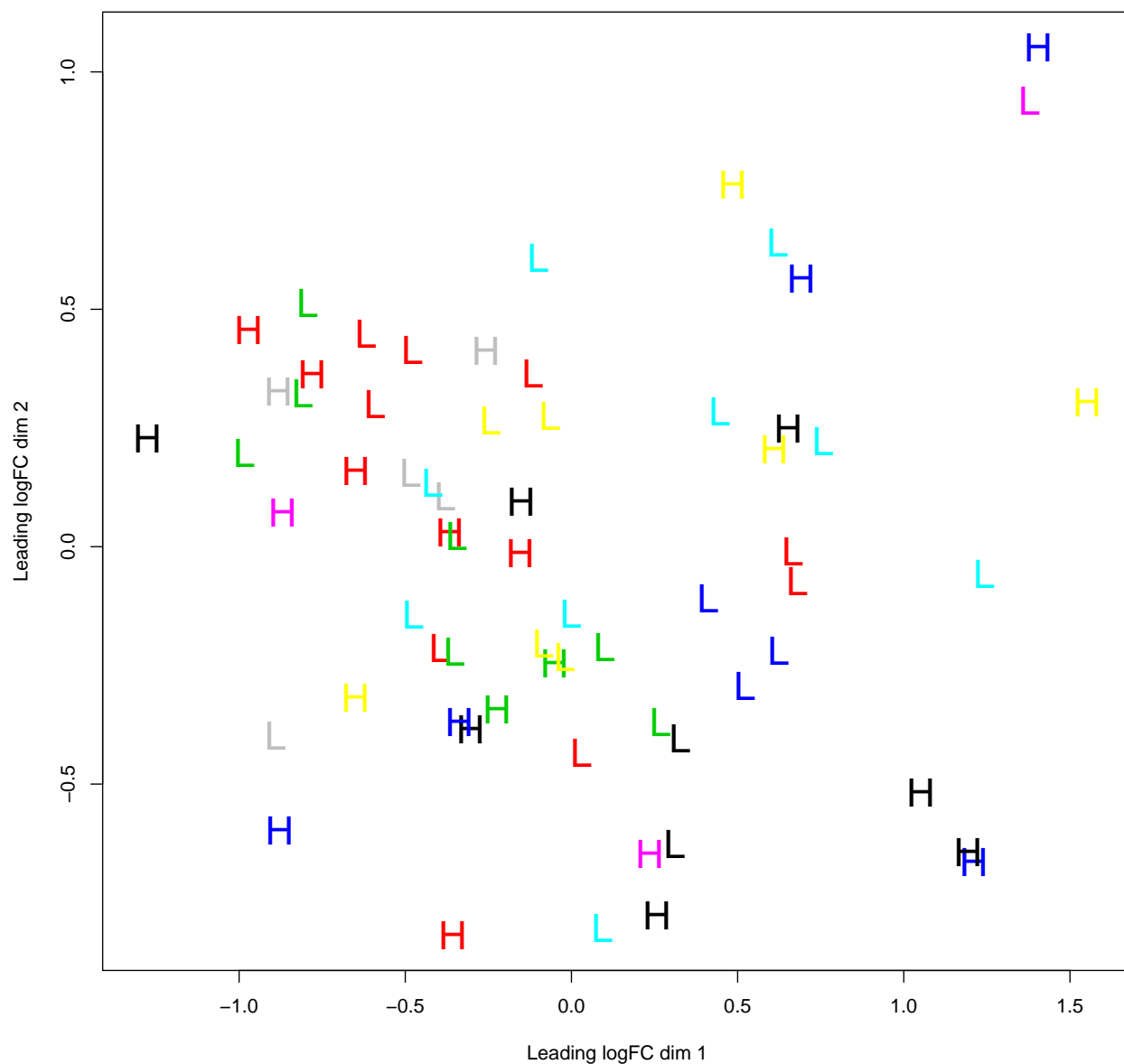
NM_173799_TIGIT_group, sample−region ID


```
condNames <- med_high
plotMDS(lcpm, labels = condNames, col = col_patient_id, cex = 2)
title(main="NM_173799_TIGIT_group, High-Low only")
```

NM_173799_TIGIT_group, High−Low only


```
##voom
dcv <- voom(dge, design, plot=FALSE)

##DC: https://support.bioconductor.org/p/94280/#94290; https://support.bioconductor.org/p/59700/
dccor <- limma::duplicateCorrelation(dcv, block = metadata_ns_ov$patient_id)
dccor$consensus.correlation
```

[1] -0.01692907

```
dcdcv <- limma::voom(dge, design, correlation=dccor$consensus.correlation, block = metadata_ns_ov$patien

##second time around: https://support.bioconductor.org/p/115484/
dccor <- limma::duplicateCorrelation(dcdcv, block=metadata_ns_ov$patient_id)
dccor$consensus.correlation
```

[1] -0.01694087

```
dcdcv <- limma::voom(dge, design, correlation=dccor$consensus.correlation, block = metadata_ns_ov$patien

dcfit <- limma::lmFit(dcdcv, design, cor=dccor$consensus.correlation, block = metadata_ns_ov$patient_id
dcmc <- makeContrasts(
        LowHigh = NM_173799_TIGIT_groupLow - NM_173799_TIGIT_groupHigh,
        levels=colnames(design))
dcfitmc <- contrasts.fit(dcfit, dcmc)
dcfitmc <- eBayes(dcfitmc, robust=TRUE)
summary(decideTests(dcfitmc))
```

```
    LowHigh
```

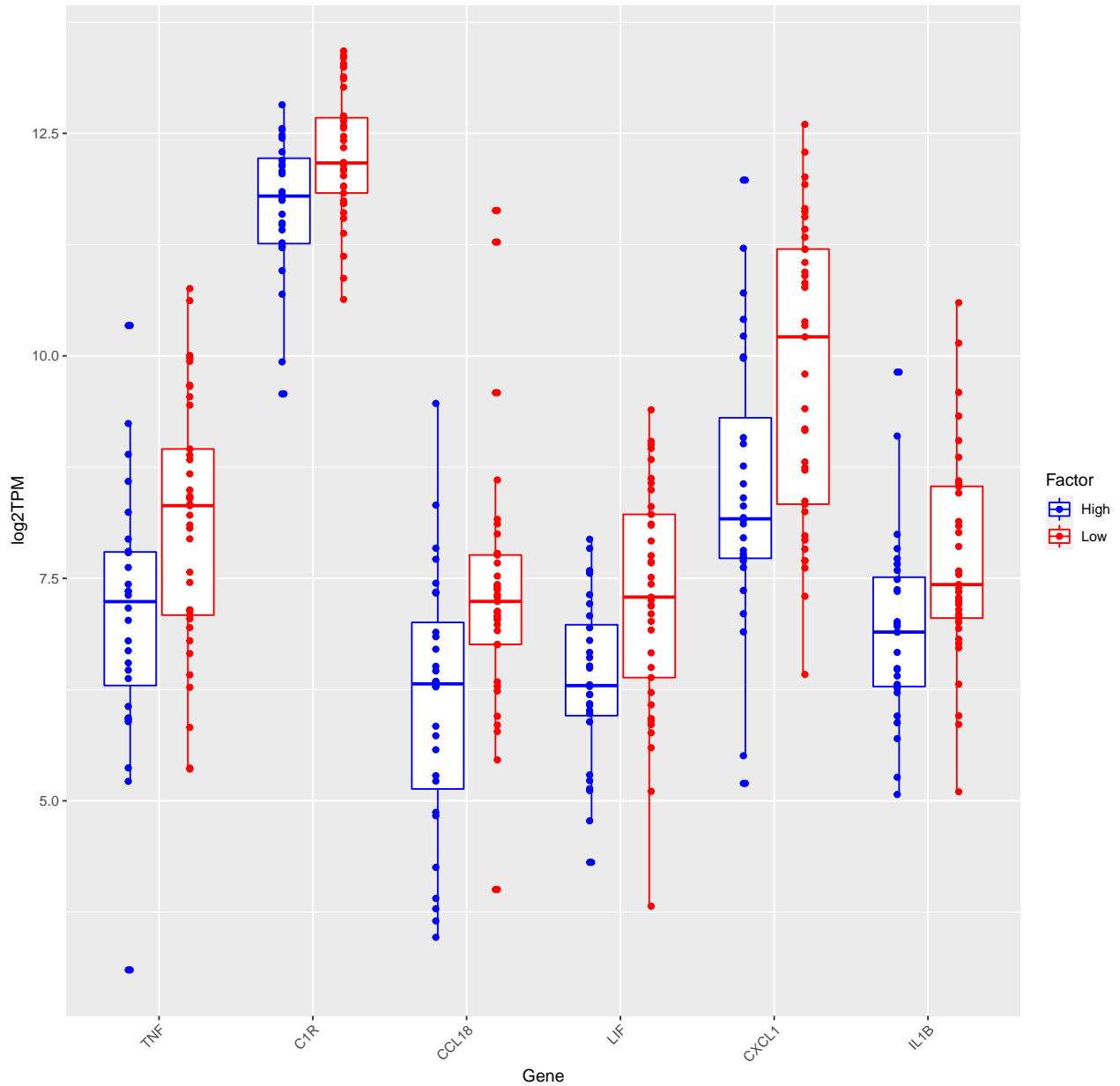Down 0 NotSig 760 Up 0

```
TIGIT_High_vs_Low_tb <- tibble::as_tibble(topTreat(dcfitmc, coef=1, n=Inf), rownames="Accession_nv") %>%
                        dplyr::left_join(raw_count_tb[,c(2,4)], .) %>%
                        dplyr::arrange(adj.P.Val, decreasing = FALSE) %>%
                        dplyr::mutate(absFC = 2^logFC) %>%
                        dplyr::mutate(fgseaRank = seq(1:length(t)))
```

```
## Joining, by = "Accession_nv"
```

5

Sanity check logFC direction

Median TIGTI High – Low log2TPM – EGAD00010001515: Expression per Group per Gene


```
knitr::kable(TIGIT_High_vs_Low_tb)
```

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
TNF	NM_000594	1.1021686	22.80157	3.4915706	0.0008490	0.1298709	-0.7028313	2.1467714	1
C1R	NM_001733	0.6080787	27.81114	3.4895569	0.0008544	0.1298709	-0.7011871	1.5242279	2
CCL18	NM_002988	1.2874294	21.70867	3.7242922	0.0004005	0.1298709	-0.1305810	2.4409274	3
LIF	NM_002309	0.9986332	23.30811	3.5774402	0.0006455	0.1298709	-0.4658927	1.9981062	4

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
CXCL1	NM_001511	1.3868944	23.95593	3.6021809	0.0006030	0.1298709	-0.3959137	2.6151512	5
IL1B	NM_000576	0.8663370	22.45405	3.4204572	0.0010622	0.1345392	-0.8918341	1.8230284	6
FPR2	NM_001462	0.7244422	20.49490	3.2290830	0.0019470	0.1572067	-1.4059563	1.6522617	7
IL8	NM_000584	1.1278317	24.39875	3.1800624	0.0022250	0.1572067	-1.4760220	2.1853006	8
TNFSF14	NM_003807	0.8665875	21.96804	3.2098218	0.0020295	0.1572067	-1.4206499	1.8233449	9
IL23A	NM_016584	0.7438129	20.46451	3.2181050	0.0019794	0.1572067	-1.4336934	1.6745958	10
CXCL3	NM_002090	0.9123592	22.33757	3.1717572	0.0022754	0.1572067	-1.5093748	1.8821207	11
CXCL6	NM_002993	1.4908512	21.39453	3.1253291	0.0026372	0.1670234	-1.6501501	2.8105476	12
S100B	NM_006272	0.8404487	20.97995	2.9600119	0.0042335	0.2298206	-2.0205043	1.7906070	13
CXCL2	NM_002089	0.8767969	24.19995	2.9814290	0.0039806	0.2298206	-1.9543268	1.8362938	14
ICAM1	NM_000201	0.6531671	24.86184	2.9073891	0.0049195	0.2492567	-2.1287912	1.5726167	15
TNFAIP3	NM_006290	0.5483853	25.23633	2.7955779	0.0067308	0.2743111	-2.3846595	1.4624480	16
C1S	NM_001734	0.6008168	26.80652	2.7779175	0.0070674	0.2743111	-2.4177390	1.5165750	17
NFKBIA	NM_020529	0.3763562	27.85153	2.7702307	0.0072187	0.2743111	-2.4315617	1.2980592	18
CCL20	NM_004591	1.2717516	23.09726	2.7786209	0.0070991	0.2743111	-2.4165226	2.4145455	19
CD1C	NM_001765	0.7147884	20.20911	2.7889522	0.0068553	0.2743111	-2.3957834	1.6412425	20
KIR_Activating_Subgroup_1	NM_001083539	-0.7845513	18.16413	-2.7269350	0.0081278	0.2941486	-2.5332148	0.5805325	21
TLR8	NM_016610	0.5039039	20.75793	2.6286425	0.0105926	0.3220141	-2.7267309	1.4180456	22
SERPINB2	NM_002575	0.9227741	19.96723	2.6463472	0.0101037	0.3220141	-2.6918049	1.8957570	23
PPBP	NM_002704	0.7711121	19.14099	2.6386035	0.0103149	0.3220141	-2.7084873	1.7065848	24
CCL21	NM_002989	1.1746436	21.05742	2.6456824	0.0101635	0.3220141	-2.6942987	2.2573711	25
IL17RA	NM_014339	0.3306097	23.43171	2.5830411	0.0119523	0.3450738	-2.8383465	1.2575447	26
SELE	NM_000450	0.7106234	18.99367	2.5734030	0.0122592	0.3450738	-2.8391311	1.6365111	27
TPSAB1	NM_003294	0.8955694	22.18114	2.5382940	0.0134384	0.3567016	-2.9172161	1.8603440	28
CD1A	NM_001763	1.0324319	19.77490	2.5333916	0.0136110	0.3567016	-2.9168983	2.0454694	29
CCL17	NM_002987	0.7119165	20.06417	2.5125078	0.0143687	0.3640083	-2.9576936	1.6379786	30

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
CD83	NM_004233	0.3712913	24.03543	2.3902650	0.0196168	0.4463966	-3.2395547	1.2935101	31
CCR3	NM_001837	0.6138112	18.81925	2.3831299	0.0199704	0.4463966	-3.2013213	1.5302965	32
OSM	NM_020530	0.5648380	20.71785	2.3922364	0.0195201	0.4463966	-3.1900719	1.4792214	33
S100A12	NM_005621	0.6321191	19.98099	2.4126043	0.0185457	0.4463966	-3.1488089	1.5498398	34
IL1R1	NM_000877	0.5267767	25.26876	2.3591201	0.0212022	0.4603916	-3.3090051	1.4407067	35
SBNO2	NM_014963	0.3618806	24.49715	2.3352757	0.0224921	0.4748341	-3.3538293	1.2851000	36
CXCR2	NM_001557	0.5455186	20.15239	2.2966123	0.0247322	0.4838606	-3.3642253	1.4595449	37
CEBPB	NM_005194	0.4139588	26.83514	2.3000962	0.0245226	0.4838606	-3.4074242	1.3323368	38
CARD9	NM_052813	0.4879014	22.58762	2.2944044	0.0248659	0.4838606	-3.3929459	1.4024034	39
CD47	NM_001777	0.4541014	28.51746	2.2846159	0.0254663	0.4838606	-3.4195662	1.3699292	40
CTSG	NM_001911	0.6183139	19.03963	2.2639040	0.0267792	0.4852857	-3.4177726	1.5350800	41
NLRP3	NM_001079802	0.4770864	21.89241	2.2632999	0.0268184	0.4852857	-3.4414946	1.3919297	42
BTLA	NM_181780	0.4431414	20.91281	2.2393985	0.0284095	0.5021212	-3.4711124	1.3595615	43
IL7R	NM_002185	0.6614881	22.78313	2.1759217	0.0330450	0.5504736	-3.6290182	1.5817132	44
RELB	NM_006509	0.3292109	23.57101	2.1724306	0.0333181	0.5504736	-3.6442664	1.2563261	45
IL26	NM_018402	0.5705706	18.44162	2.1728070	0.0332886	0.5504736	-3.5735479	1.4851109	46
IL1A	NM_000575	0.6770965	19.10340	2.1236178	0.0373490	0.5706322	-3.6600548	1.5989186	47
LTB	NM_002341	0.6592023	23.18794	2.1214507	0.0375374	0.5706322	-3.7312311	1.5792092	48
CR1	NM_000651	0.5123855	22.94807	2.0880763	0.0405449	0.5706322	-3.7739814	1.4264068	49
PTGS2	NM_000963	0.6932108	21.70317	2.1037853	0.0391042	0.5706322	-3.7122660	1.6168779	50
CCR4	NM_005508	0.4229074	19.72584	2.1133255	0.0382512	0.5706322	-3.6820145	1.3406266	51
IL21	NM_021803	0.5201309	18.56532	2.0943337	0.0399656	0.5706322	-3.7057197	1.4340854	52
IL12A	NM_000882	0.7113933	21.93918	2.0967043	0.0397480	0.5706322	-3.7344941	1.6373846	53
IFITM1	NM_003641	0.4987294	28.48161	2.0909618	0.0402769	0.5706322	-3.7712951	1.4129685	54
TICAM1	NM_014261	0.3121411	23.20557	2.0723662	0.0420315	0.5807987	-3.8113695	1.2415489	55
CXCL5	NM_002994	0.6773997	20.69805	2.0530810	0.0439206	0.5960652	-3.7867246	1.5992547	56

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
IL6	NM_000600	0.5946296	20.72808	2.0222784	0.0470899	0.6278649	-3.8426565	1.5100848	57
CLEC4A	NM_194448	0.2958909	22.52571	2.0108224	0.0483178	0.6331292	-3.8976299	1.2276428	58
SPANXB1	NM_032461	0.4880205	18.32480	1.9954290	0.0500109	0.6442079	-3.8614869	1.4025191	59
CCL26	NM_006072	0.4954459	19.69664	1.9379942	0.0567839	0.7164801	-3.9659751	1.4097564	60
AMBP	NM_001633	-0.4998310	18.37037	-1.9322136	0.0575070	0.7164801	-3.9619723	0.7071896	61
MAGEA4	NM_001011548	-1.0561001	19.89183	-1.9022742	0.0614924	0.7537775	-4.0174813	0.4809303	62
CD40	NM_001250	-0.3975070	24.70039	-1.8756381	0.0650054	0.7744058	-4.1775315	0.7591690	63
C3	NM_000064	0.8649083	26.85448	1.8749792	0.0652131	0.7744058	-4.1440098	1.8212240	64
IKBKE	NM_014002	0.3091940	24.66850	1.8634060	0.0667308	0.7802365	-4.1963222	1.2390153	65
TXNIP	NM_006472	-0.2619028	27.94464	-1.8516397	0.0684266	0.7879430	-4.1726908	0.8339872	66
CCL3L1	NM_021006	0.4823635	23.46139	1.8404653	0.0700706	0.7948306	-4.2133304	1.3970305	67
CCR7	NM_001838	0.4538337	20.16612	1.8227130	0.0727503	0.7987847	-4.1483043	1.3696751	68
CSF3R	NM_156038	0.3910697	22.45112	1.8267665	0.0721310	0.7987847	-4.1918159	1.3113653	69
CCL11	NM_002986	0.7923652	21.05068	1.8179423	0.0735723	0.7987847	-4.1815324	1.7319115	70
MAP3K5	NM_005923	0.2995990	24.69047	1.8013410	0.0760897	0.8031689	-4.2949283	1.2308022	71
CFI	NM_000204	0.4764561	26.95650	1.8073460	0.0751387	0.8031689	-4.2594794	1.3913218	72
APOE	NM_000041	-0.3745417	27.95853	-1.7847758	0.0787651	0.8089385	-4.2738576	0.7713504	73
MEFV	NM_000243	0.3068589	19.63598	1.7878810	0.0782577	0.8089385	-4.1900918	1.2370115	74
SMPD3	NM_018667	-0.4775057	19.99554	-1.7607467	0.0827846	0.8140553	-4.2320321	0.7182183	75
IL11	NM_000641	0.4989511	20.26789	1.7611066	0.0827231	0.8140553	-4.2395592	1.4131857	76
ARG1	NM_000045	0.4730874	18.12140	1.7562939	0.0835478	0.8140553	-4.2170769	1.3880769	77
CD97	NM_078481	-0.3300623	25.22115	-1.7590867	0.0830684	0.8140553	-4.3601892	0.7955021	78
FCER1A	NM_002001	0.5834153	20.56601	1.7260922	0.0888794	0.8361786	-4.2899337	1.4983922	79
ITGA2B	NM_000419	0.5804223	21.26630	1.7242142	0.0892200	0.8361786	-4.3063562	1.4952869	80
IFNGR1	NM_000416	0.2214063	25.48569	1.7235250	0.0893452	0.8361786	-4.4121964	1.1658695	81
CD1B	NM_001764	0.6187826	17.91940	1.7187378	0.0902193	0.8361786	-4.2698034	1.5355789	82

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
CXCL16	NM_001100802	0.3108346	25.16328	1.6920325	0.0952250	0.8587871	-4.4606991	1.2404251	83
IL7	NM_000880	0.3189981	19.72011	1.6877498	0.0960486	0.8587871	-4.3333351	1.2474639	84
POU2AF1	NM_006235	-0.5760568	20.57555	-1.6990918	0.0938802	0.8587871	-4.3296641	0.6707947	85
CD33	NM_001177608	0.2528925	21.13200	1.6544615	0.1026502	0.8765633	-4.4041006	1.1915938	86
NCR1	NM_004829	-0.4546243	18.79767	-1.6659634	0.1003286	0.8765633	-4.3538541	0.7297002	87
CD19	NM_001770	-0.4868475	21.58042	-1.6611392	0.1012971	0.8765633	-4.4041251	0.7135827	88
PLAUR	NM_001005376	0.3122009	24.23540	1.6600337	0.1015201	0.8765633	-4.5013132	1.2416004	89
CKLF	NM_181640	0.2893395	25.43475	1.6484947	0.1038716	0.8771382	-4.5229954	1.2220806	90
IRAK4	NM_016123	0.2460635	24.05763	1.6357586	0.1065183	0.8896032	-4.5301733	1.1859667	91
CCL3	NM_002983	0.3938861	22.91451	1.6218122	0.1094890	0.9043906	-4.5165080	1.3139278	92
CFB	NM_001710	0.7341407	26.77749	1.6066002	0.1129079	0.9226882	-4.5542196	1.6634064	93
AMICA1	NM_153206	0.3057283	22.91365	1.5900503	0.1164697	0.9416698	-4.5530504	1.2360425	94
TNFRSF18	NM_004195	0.3729124	21.65211	1.5815231	0.1184064	0.9451248	-4.5087892	1.2949644	95
C8G	NM_000606	0.3781768	20.71340	1.5741846	0.1200937	0.9451248	-4.5003780	1.2996983	96
TRAF2	NM_021138	0.2400705	25.15616	1.5718788	0.1206278	0.9451248	-4.6331959	1.1810503	97
EBI3	NM_005755	0.2475414	20.52930	1.4838863	0.1424671	0.9579090	-4.6115791	1.1871822	98
BID	NM_001196	0.2711466	21.47529	1.4956943	0.1393675	0.9579090	-4.6128796	1.2067666	99
IFNA2	NM_000605	0.3045767	18.44515	1.4539448	0.1505690	0.9579090	-4.6153166	1.2350562	100
ITGAX	NM_000887	0.2854007	23.62875	1.5093633	0.1358461	0.9579090	-4.6927336	1.2187487	101
FOS	NM_005252	0.5905296	28.36648	1.4810354	0.1432999	0.9579090	-4.6879803	1.5057995	102
CCL23	NM_145898	0.4575347	18.08391	1.4514903	0.1512488	0.9579090	-4.6167211	1.3731933	103
ICOSLG	NM_015259	0.2711817	23.71070	1.5104578	0.1355672	0.9579090	-4.6782896	1.2067959	104
TNFRSF1A	NM_001065	0.2243402	25.68333	1.5332536	0.1298604	0.9579090	-4.6811437	1.1682429	105
CD58	NM_001779	0.2141110	23.90708	1.4711323	0.1458754	0.9579090	-4.7471520	1.1599889	106
NFKB1	NM_003998	0.1928477	23.27709	1.5355474	0.1292969	0.9579090	-4.6307372	1.1430176	107
SIGIRR	NM_021805	0.3290127	24.36682	1.5310869	0.1303945	0.9579090	-4.6805524	1.2561534	108

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
IL2RA	NM_000417	0.3105868	22.46214	1.4628021	0.1481357	0.9579090	-4.6926413	1.2402120	109
CCR6	NM_031409	0.3447635	19.93723	1.4712656	0.1458394	0.9579090	-4.6167673	1.2699428	110
C6	NM_000065	0.4841983	20.35901	1.4684005	0.1466136	0.9579090	-4.6259473	1.3988083	111
LILRB2	NM_005874	0.2979668	21.98703	1.4957458	0.1393541	0.9579090	-4.6413605	1.2294106	112
FUT7	NM_004479	0.2973142	19.11421	1.5326078	0.1300194	0.9579090	-4.5302251	1.2288546	113
KIR_Inhibiting_Subgroup_1	NM_014311	-0.4034613	18.53780	-1.4872515	0.1415783	0.9579090	-4.5761778	0.7560422	114
MAP2K4	NM_003010	0.2877371	24.22710	1.5201088	0.1331274	0.9579090	-4.6930127	1.2207240	115
TXK	NM_003328	0.4611773	21.53367	1.5177110	0.1337303	0.9579090	-4.5879727	1.3766648	116
CCR9	NM_031200	0.4160211	17.95181	1.5530068	0.1250710	0.9579090	-4.4846693	1.3342427	117
CD207	NM_015717	0.6158898	20.51027	1.4562210	0.1499446	0.9579090	-4.6400826	1.5325029	118
CCL4	NM_002984	0.3784633	23.51620	1.5410655	0.1279492	0.9579090	-4.6491203	1.2999565	119
EGR1	NM_001964	0.5711723	25.09852	1.4529378	0.1509708	0.9579090	-4.7877347	1.4857304	120
TNFRSF9	NM_001561	0.3545210	20.82061	1.4366259	0.1554167	0.9681697	-4.6788248	1.2785610	121
CCL13	NM_005408	0.4521985	21.36245	1.4407428	0.1542535	0.9681697	-4.6921984	1.3681236	122
CLEC6A	NM_001007033	0.3619725	18.80764	1.4263323	0.1583549	0.9784528	-4.6524150	1.2851818	123
CD9	NM_001769	0.3412301	28.41257	1.4147579	0.1617097	0.9911241	-4.7803657	1.2668363	124
CCL19	NM_006274	0.5100345	21.21108	1.4084273	0.1635677	0.9912480	-4.7342830	1.4240842	125
CD5	NM_014207	0.4113463	20.72990	1.4058175	0.1643385	0.9912480	-4.7116575	1.3299263	126
PPL	NM_002705	0.2766360	25.15200	0.9570876	0.3419189	0.9999368	-5.3226240	1.2113670	127
C4BPA	NM_000715	0.0012820	18.66578	0.0052062	0.9958613	0.9999368	-5.4988723	1.0008890	128
C7	NM_000587	-0.3467934	25.90218	-0.4668945	0.6421428	0.9999368	-5.6321941	0.7863299	129
CASP10	NM_032977	0.0046459	20.19895	0.0239345	0.9809751	0.9999368	-5.5356040	1.0032255	130
PBK	NM_018492	0.3345867	23.27109	1.3281609	0.1885727	0.9999368	-4.8897467	1.2610161	131
CCL25	NM_005624	-0.3969750	20.04690	-1.0428433	0.3007201	0.9999368	-5.0686575	0.7594490	132
CD1D	NM_001766	-0.0594004	21.13799	-0.2979917	0.7666196	0.9999368	-5.5223509	0.9596629	133
TFRC	NM_003234	0.2538978	26.45064	1.0276547	0.3075980	0.9999368	-5.2377970	1.1924244	134

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
CD24	NM_013230	-0.1111042	28.55214	-0.3168362	0.7523401	0.9999368	-5.6100009	0.9258792	135
TNFRSF14	NM_003820	-0.0605087	25.08842	-0.3700940	0.7124645	0.9999368	-5.6750618	0.9589259	136
DDX43	NM_018665	0.1892627	19.79488	0.5605822	0.5769277	0.9999368	-5.3863654	1.1401809	137
IL13RA2	NM_000640	-0.7066344	19.51506	-1.3340920	0.1867508	0.9999368	-4.7674703	0.6127479	138
IL5	NM_000879	0.2031884	17.57252	0.6483496	0.5189458	0.9999368	-5.2989810	1.1512398	139
GAGE1	NM_001040663	0.0942821	18.97625	0.2677875	0.7896748	0.9999368	-5.4713550	1.0675341	140
ETS1	NM_005238	-0.0850324	25.20332	-0.4385936	0.6623486	0.9999368	-5.6489724	0.9427633	141
INPP5D	NM_005541	0.0831931	23.70769	0.4715725	0.6387440	0.9999368	-5.6038677	1.0593601	142
CD53	NM_001040003	0.2001927	24.97598	1.0053442	0.3183009	0.9999368	-5.2788450	1.1488518	143
TICAM2	NM_021649	0.0677500	22.47359	0.5113717	0.6107500	0.9999368	-5.5130936	1.0480809	144
PIN1	NM_006221	-0.1148232	24.61981	-0.4701519	0.6397533	0.9999368	-5.6314498	0.9234955	145
C4B	NM_001002029	0.0201596	26.91212	0.0771137	0.9387599	0.9999368	-5.6907664	1.0140717	146
KIR3DL1	NM_013289	0.1112392	18.50773	0.4369972	0.6635002	0.9999368	-5.4190051	1.0801556	147
ITGB1	NM_033666	0.2033945	28.38372	0.8077211	0.4220722	0.9999368	-5.3652765	1.1514043	148
IL17F	NM_052872	-0.0717580	18.44278	-0.2872491	0.7744965	0.9999368	-5.4579272	0.9514779	149
SPP1	NM_000582	0.1891286	28.36720	0.6003593	0.5502657	0.9999368	-5.5005514	1.1400749	150
LGALS3	NM_001177388	0.1664811	27.18061	0.7810148	0.4375087	0.9999368	-5.4130240	1.1223177	151
GZMB	NM_004131	0.2522597	22.04897	0.6752770	0.5017933	0.9999368	-5.3994677	1.1910713	152
CCL28	NM_148672	-0.1366461	21.21284	-0.2682007	0.7893799	0.9999368	-5.5274019	0.9096314	153
CARD11	NM_032415	0.2476150	23.07071	0.8327010	0.4079331	0.9999368	-5.3473032	1.1872428	154
ATM	NM_000051	-0.0155736	21.18500	-0.0871740	0.9307898	0.9999368	-5.5503086	0.9892632	155
ELK1	NM_005229	-0.2987152	24.72000	-1.1862764	0.2396480	0.9999368	-5.0961873	0.8129761	156
RORA	NM_134261	0.1812133	23.62863	0.7778925	0.4393349	0.9999368	-5.4203646	1.1338370	157
SPN	NM_003123	-0.0152091	21.47099	-0.0683550	0.9457040	0.9999368	-5.5733364	0.9895132	158
CXCR4	NM_003467	-0.0862025	27.70849	-0.4506813	0.6536553	0.9999368	-5.5837113	0.9419991	159
PRF1	NM_005041	0.1172779	22.25316	0.3748773	0.7089202	0.9999368	-5.5535745	1.0846863	160

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
S100A6	NM_014624	0.2165745	28.29710	0.7861454	0.4345177	0.9999368	-5.3852613	1.1619713	161
JAK1	NM_002227	0.0093345	25.75716	0.0669288	0.9468351	0.9999368	-5.7276726	1.0064912	162
DDX58	NM_014314	0.0831943	25.61836	0.4212353	0.6749139	0.9999368	-5.6491071	1.0593610	163
CSF2	NM_000758	0.2516216	18.36866	0.9233346	0.3591028	0.9999368	-5.1384023	1.1905445	164
CCL15	NM_032965	0.2912999	18.21677	0.9367835	0.3521904	0.9999368	-5.1192269	1.2237424	165
VCAM1	NM_001078	0.1564555	24.51365	0.6894496	0.4928902	0.9999368	-5.5177584	1.1145455	166
C1QA	NM_015991	-0.0353911	26.34851	-0.1689431	0.8663437	0.9999368	-5.6925240	0.9757672	167
ATG10	NM_001131028	0.0817454	23.32955	0.3590594	0.7206649	0.9999368	-5.6150407	1.0582976	168
TNFSF10	NM_003810	-0.2543677	26.58858	-0.8142296	0.4183602	0.9999368	-5.4101075	0.8383545	169
TLR6	NM_006068	0.0564039	22.28709	0.4255491	0.6717824	0.9999368	-5.5384422	1.0398705	170
CLEC5A	NM_013252	0.2485556	22.16847	1.0558969	0.2947583	0.9999368	-5.1251269	1.1880171	171
TLR10	NM_030956	0.0985407	20.38400	0.5250631	0.6012498	0.9999368	-5.4203295	1.0706899	172
OAS3	NM_006187	0.0004627	25.77490	0.0020305	0.9983858	0.9999368	-5.7283947	1.0003208	173
F13A1	NM_000129	0.2865968	25.68923	1.0218854	0.3104627	0.9999368	-5.2522401	1.2197596	174
IL17B	NM_014443	-0.3196577	18.74555	-0.9714613	0.3347670	0.9999368	-5.1026840	0.8012600	175
CD22	NM_001771	0.0962739	24.23478	0.2092758	0.8348764	0.9999368	-5.6730015	1.0690089	176
CD209	NM_021155	0.0050495	21.66813	0.0239186	0.9808977	0.9999368	-5.5917694	1.0035062	177
TIRAP	NM_148910	-0.1780111	22.28907	-1.1365100	0.2597389	0.9999368	-5.0406705	0.8839207	178
CCL16	NM_004590	-0.1002860	18.46042	-0.3680210	0.7140025	0.9999368	-5.4468461	0.9328480	179
STAT5B	NM_012448	0.1112453	24.03763	0.5138684	0.6090125	0.9999368	-5.5975151	1.0801602	180
KLRG1	NM_005810	-0.0424893	19.66426	-0.1740306	0.8623593	0.9999368	-5.5119211	0.9709781	181
CXCL17	NM_198477	0.2526705	23.79338	0.4297954	0.6687431	0.9999368	-5.5637417	1.1914104	182
MAP2K2	NM_030662	0.0780315	26.71852	0.5896974	0.5573510	0.9999368	-5.5503749	1.0555768	183
CD1E	NM_001042583	0.3395769	18.71249	0.9501269	0.3454179	0.9999368	-5.1202029	1.2653854	184
MAGEA1	NM_004988	0.2892731	18.03844	0.7444619	0.4591662	0.9999368	-5.2575734	1.2220244	185
DUSP4	NM_057158	0.2431297	22.95755	0.8825856	0.3805746	0.9999368	-5.2978359	1.1835575	186

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
IL1RAP	NM_002182	0.3267763	24.98165	1.2108193	0.2301629	0.9999368	-5.0765445	1.2542077	187
GPI	NM_000175	-0.0486566	27.63821	-0.2230193	0.8241901	0.9999368	-5.6594274	0.9668362	188
FOLR1	NM_000802	0.0551066	27.03922	0.1188001	0.9057939	0.9999368	-5.6829127	1.0389359	189
JAM3	NM_032801	-0.0380996	23.97711	-0.1094594	0.9131613	0.9999368	-5.7020977	0.9739371	190
MFGE8	NM_0011460	0.2562052	26.78973	0.8825479	0.3805948	0.9999368	-5.3482595	1.1943331	191
CDH1	NM_004360	0.1684691	26.69087	0.6942652	0.4898849	0.9999368	-5.4966845	1.1238652	192
CXCL14	NM_004887	0.3087250	23.00467	0.5202320	0.6046409	0.9999368	-5.5210560	1.2386126	193
FOXP3	NM_014009	0.2636411	20.85852	1.3190089	0.1915978	0.9999368	-4.8100394	1.2005048	194
STAT3	NM_139276	0.1151426	27.94587	0.9313933	0.3549504	0.9999368	-5.2794402	1.0830821	195
CXCR5	NM_001716	0.0998925	19.04386	0.4616432	0.6458130	0.9999368	-5.4217224	1.0716936	196
EP300	NM_001429	-0.0117552	26.01148	-0.0693937	0.9448803	0.9999368	-5.7233893	0.9918850	197
MEF2C	NM_002397	-0.0256299	24.63652	-0.1335460	0.8941566	0.9999368	-5.7273655	0.9823916	198
IFI35	NM_005533	-0.1939745	24.41746	-1.1034849	0.2737126	0.9999368	-5.1851050	0.8741941	199
CD36	NM_001001548	-0.0572179	22.74991	-0.1847091	0.8540079	0.9999368	-5.6146726	0.9611158	200
PSEN2	NM_000447	-0.0398750	23.74757	-0.2207698	0.8259343	0.9999368	-5.6718781	0.9727392	201
CXCR3	NM_001504	-0.0822808	21.07610	-0.2804205	0.7800076	0.9999368	-5.5319955	0.9445631	202
TLR1	NM_003263	-0.0229550	24.33756	-0.1711332	0.8646280	0.9999368	-5.7181427	0.9842147	203
MRC1	NM_002438	0.1021453	23.49077	0.4788147	0.6336090	0.9999368	-5.6015067	1.0733684	204
IKBKG	NM_003639	0.1505561	24.23731	0.7599594	0.4499099	0.9999368	-5.4619317	1.1099972	205
IL1R2	NM_173343	0.3158249	20.74411	1.3285149	0.1884564	0.9999368	-4.7934203	1.2447231	206
CFD	NM_001928	0.0328747	21.83708	0.1555678	0.8768353	0.9999368	-5.5948933	1.0230486	207
PTPRC	NM_080921	0.1998000	24.31830	0.8895195	0.3768650	0.9999368	-5.3742239	1.1485391	208
LY9	NM_001033667	-0.0122240	21.00094	-0.0567023	0.9549489	0.9999368	-5.5575140	0.9915628	209
ITGA1	NM_181501	0.0132207	25.24284	0.0540293	0.9570705	0.9999368	-5.7357931	1.0092060	210
HLA-DMB	NM_002118	0.0613779	25.38763	0.2636394	0.7928564	0.9999368	-5.7008480	1.0434619	211
FCER1G	NM_004106	0.0650695	25.32471	0.3599258	0.7200198	0.9999368	-5.6728171	1.0461353	212

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
CASP1	NM_001223	0.0106391	22.98207	0.0565141	0.9550983	0.9999368	-5.6561162	1.0074017	213
SIGLEC1	NM_023068	-0.0899701	24.76428	-0.4862507	0.6283554	0.9999368	-5.6294175	0.9395422	214
CD27	NM_001242	-0.0670624	21.89595	-0.1915752	0.8484668	0.9999368	-5.5854981	0.9545797	215
PSMB10	NM_002801	0.0358052	25.15583	0.1812053	0.8567463	0.9999368	-5.7198572	1.0251288	216
PSMB8	NM_004159	0.1340949	26.98471	0.7064431	0.4823301	0.9999368	-5.4692352	1.0974041	217
TNFSF15	NM_001204344	-0.2910459	22.79722	-1.1844329	0.2403717	0.9999368	-5.0094939	0.8173093	218
HLA-A	NM_002116	0.1310387	28.74019	0.6204936	0.5370103	0.9999368	-5.4763448	1.0950819	219
HMGB1	NM_002128	0.2443286	27.49229	1.1824179	0.2411645	0.9999368	-5.0641941	1.1845414	220
THBS1	NM_003246	0.1306577	27.03789	0.3976603	0.6921282	0.9999368	-5.6134664	1.0947927	221
SPA17	NM_017425	0.0193731	24.05370	0.0859738	0.9317403	0.9999368	-5.7128206	1.0135190	222
SLAMF7	NM_021181	-0.0922670	22.77867	-0.3884064	0.6989306	0.9999368	-5.5876357	0.9380476	223
LILRB1	NM_001081637	-0.1932203	22.72662	-1.0052916	0.3183261	0.9999368	-5.2046362	1.1433129	224
HLA-C	NM_002117	0.2308169	28.63000	1.0734714	0.2868604	0.9999368	-5.1430073	1.1734992	225
TOLLIP	NM_019009	0.0176144	24.70135	0.1075803	0.9146459	0.9999368	-5.7282911	1.0122842	226
TAP2	NM_000544	0.0923427	26.06454	0.4725564	0.6380453	0.9999368	-5.6214272	1.0660999	227
IL21R	NM_021798	0.1648836	21.25205	0.5778793	0.5652574	0.9999368	-5.4305975	1.1210756	228
CD84	NM_001184879	-0.0143671	23.66213	-0.0793389	0.9369965	0.9999368	-5.7041934	0.9900909	229
SALL2	NM_005407	0.0011429	24.31317	0.0035192	0.9972024	0.9999368	-5.7168186	1.0007925	230
KLRC2	NM_002260	0.0009187	21.21328	0.0034262	0.9972763	0.9999368	-5.5634953	1.0006370	231
TNFRSF11A	NM_003839	0.0211856	21.61600	0.1120048	0.9111501	0.9999368	-5.5825980	1.0147931	232
CD3G	NM_000073	-0.0080409	20.34412	-0.0274170	0.9782076	0.9999368	-5.5392138	0.9944419	233
VEGFC	NM_005429	-0.1551377	23.54025	-0.5336422	0.5953320	0.9999368	-5.5489553	0.8980466	234
IL2RG	NM_000206	0.2537953	23.17732	0.7807457	0.4376659	0.9999368	-5.4083726	1.1923397	235
LRRN3	NM_001099660	0.1747842	19.88178	0.4829743	0.6306678	0.9999368	-5.4266460	1.1287956	236
TLR4	NM_138554	-0.0335161	23.32774	-0.2033574	0.8394640	0.9999368	-5.6675967	0.9770362	237
LY96	NM_015364	0.0024123	23.55824	0.0165028	0.9868817	0.9999368	-5.7001055	1.0016735	238

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
PRG2	NM_002728	0.2066872	20.32551	0.7490468	0.4564164	0.9999368	-5.2966602	1.1540352	239
AXL	NM_021913	-0.0132404	25.08180	-0.0819188	0.9349523	0.9999368	-5.7334434	0.9908645	240
USP9Y	NM_004654	0.2378256	17.83649	0.9138722	0.3640182	0.9999368	-5.1287971	1.1792140	241
ITGB4	NM_001005731	0.2762364	26.14963	0.9287181	0.3563254	0.9999368	-5.3317019	1.2110315	242
CD96	NM_005816	0.1324073	21.63960	0.4629378	0.6448895	0.9999368	-5.4949097	1.0961212	243
NOS2A	NM_153292	-0.0869218	18.87039	-0.2929652	0.7704423	0.9999368	-5.4669496	0.9415295	244
CCL2	NM_002982	0.2547517	25.14890	1.2119654	0.2297267	0.9999368	-5.0733199	1.1931304	245
GZMK	NM_002104	0.0641380	21.83335	0.1895843	0.8502006	0.9999368	-5.5791188	1.0454601	246
CD46	NM_172350	0.1269646	27.36027	0.7897903	0.4324001	0.9999368	-5.4025396	1.0919938	247
IGF2R	NM_000876	-0.0046087	25.06227	-0.0272386	0.9783493	0.9999368	-5.7372222	0.9968106	248
CYBB	NM_000397	0.1810760	25.36722	0.8944472	0.3742427	0.9999368	-5.3678495	1.1337291	249
PRTFDC1	NM_020200	0.0446329	24.39281	0.1497068	0.8814398	0.9999368	-5.7078948	1.0314207	250
PRKCD	NM_006254	0.1423180	25.34241	0.8915016	0.3758088	0.9999368	-5.3752129	1.1036770	251
IL15RA	NM_002189	0.0045026	23.47457	0.0176505	0.9859695	0.9999368	-5.6991624	1.0031259	252
AIRE	NM_000383	0.3179374	18.87628	1.0699465	0.2884326	0.9999368	-5.0206655	1.2465471	253
SLAMF6	NM_001184714	0.1120987	19.88775	0.5234632	0.6023564	0.9999368	-5.4126867	1.0807993	254
PRAME	NM_006115	-0.0735398	25.59014	-0.1557317	0.8767194	0.9999368	-5.7232273	0.9503035	255
TNFRSF13C	NM_052945	0.0666243	22.03567	0.2145813	0.8307370	0.9999368	-5.5656717	1.0472634	256
MAP3K7	NM_145333	0.0152784	25.71014	0.0820610	0.9348397	0.9999368	-5.7269093	1.0106465	257
TNFSF12	NM_003809	-0.0015861	24.41460	-0.0112413	0.9910639	0.9999368	-5.7328794	0.9989012	258
IRF2	NM_002199	-0.0610062	24.65777	-0.5001754	0.6185690	0.9999368	-5.6212882	0.9585953	259
IFI16	NM_005531	0.0869480	26.07434	0.4909127	0.6250713	0.9999368	-5.6114624	1.0621209	260
STAT1	NM_007315	-0.0529151	27.23092	-0.2477981	0.8050386	0.9999368	-5.6531091	0.9639865	261
SLC40A1	NM_014585	-0.0030739	27.60236	-0.0098301	0.9921857	0.9999368	-5.6763716	0.9978716	262
CD81	NM_004356	0.2031249	29.99822	1.0553621	0.2950010	0.9999368	-5.1362311	1.1511891	263
SCGB1D2	NM_006551	-0.5260491	23.09205	-1.1075179	0.2720830	0.9999368	-5.1127810	0.6944539	264

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
HLA-DOB	NM_002120	0.3265083	22.33908	1.2760820	0.2062749	0.9999368	-4.9002995	1.2539748	265
NOD2	NM_022162	-0.0940548	22.77376	-0.5332480	0.5956033	0.9999368	-5.5066969	0.9368859	266
RORC	NM_001001523	-0.1453591	22.01445	-0.4214205	0.6747793	0.9999368	-5.5101170	0.9041543	267
SYK	NM_003177	0.1651535	25.60334	0.9109675	0.3655357	0.9999368	-5.3553915	1.1212854	268
CD14	NM_000591	0.1555860	25.62094	0.9961477	0.3227156	0.9999368	-5.2789668	1.1138740	269
HCK	NM_002110	0.1580408	23.81612	0.9901404	0.3256213	0.9999368	-5.2736806	1.1157709	270
NRIP1	NM_003489	0.1780202	24.39992	0.6574273	0.5131290	0.9999368	-5.5314929	1.1313303	271
PIK3CD	NM_005026	-0.0016946	23.37123	-0.0115466	0.9908212	0.9999368	-5.6928291	0.9988261	272
TAP1	NM_000593	0.2810244	24.77631	1.0294389	0.3069271	0.9999368	-5.2576855	1.2150573	273
CASP8	NM_001228	0.1371571	25.07353	0.9069487	0.3676418	0.9999368	-5.3648397	1.0997359	274
CMKLR1	NM_004072	0.0164291	23.63807	0.0970206	0.9229959	0.9999368	-5.7046386	1.0114529	275
IL17RB	NM_018725	-0.1797560	21.06451	-0.5217769	0.6035238	0.9999368	-5.4301041	0.8828523	276
HLA-DRA	NM_019111	0.0040357	28.58765	0.0170217	0.9864692	0.9999368	-5.6498732	1.0028012	277
IL16	NM_004513	0.0391944	23.29441	0.2555203	0.7990938	0.9999368	-5.6616572	1.0275399	278
MAGEB2	NM_002364	0.0754072	18.55317	0.2068898	0.8367152	0.9999368	-5.4743016	1.0536584	279
IL6ST	NM_002184	0.0035681	26.52314	0.0188380	0.9850256	0.9999368	-5.7120154	1.0024762	280
GTF3C1	NM_001520	-0.0329152	25.64926	-0.1599156	0.8734224	0.9999368	-5.7206820	0.9774432	281
CD164	NM_006016	-0.0527751	26.91471	-0.2940633	0.7696067	0.9999368	-5.6579055	0.9640801	282
ICAM3	NM_002162	-0.0499227	24.08867	-0.2833770	0.7777502	0.9999368	-5.6795494	0.9659881	283
AICDA	NM_020661	-0.1856490	18.51160	-0.8893125	0.3769754	0.9999368	-5.1683766	0.8792534	284
SH2D1A	NM_001114937	-0.1373185	20.50135	-0.4812708	0.6318716	0.9999368	-5.4477460	0.9092075	285
CMA1	NM_001836	0.3058652	18.20215	0.9606241	0.3401500	0.9999368	-5.1101671	1.2361597	286
SLAMF1	NM_003037	0.1670240	19.43911	0.5687416	0.5714081	0.9999368	-5.3878178	1.1227401	287
IL2	NM_000586	0.2496946	17.94511	0.9917060	0.3248624	0.9999368	-5.0717999	1.1889554	288
TNFRSF13B	NM_012452	-0.1899586	18.55558	-0.7598569	0.4499707	0.9999368	-5.2584843	0.8766309	289
ITK	NM_005546	0.1127939	21.69215	0.4340072	0.6656593	0.9999368	-5.5050434	1.0813202	290

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
PPARG	NM_015869	-0.3436055	21.21219	-1.0128409	0.3147323	0.9999368	-5.1135095	0.7880694	291
SERPING1	NM_000062	0.1913633	28.01260	1.2571972	0.2129900	0.9999368	-4.9661627	1.1418422	292
YTHDF2	NM_001172828	0.0891363	25.06782	0.4968275	0.6209157	0.9999368	-5.6252229	1.0637332	293
MST1R	NM_002447	0.0257411	22.13013	0.0925277	0.9265513	0.9999368	-5.5881025	1.0180025	294
CLU	NM_001831	0.2103565	20.16117	0.7679116	0.4452024	0.9999368	-5.2826166	1.1569741	295
TFEB	NM_007162	0.0128565	22.98455	0.0832561	0.9338929	0.9999368	-5.6562617	1.0089513	296
ADAMDEC1	NM_014479	0.4350943	22.86270	1.0356334	0.3041408	0.9999368	-5.1837048	1.3519992	297
CASP3	NM_032991	-0.0845596	24.23248	-0.5267014	0.6001176	0.9999368	-5.5959320	0.9430724	298
BCL6	NM_001706	0.2473551	26.11669	1.2443519	0.2176489	0.9999368	-5.0272747	1.1870289	299
TNFRSF10C	NM_003841	0.0122898	21.01991	0.0677389	0.9461926	0.9999368	-5.5492098	1.0085550	300
CD6	NM_006725	-0.0395519	21.35390	-0.1694291	0.8659630	0.9999368	-5.5515798	0.9729571	301
KLRK1	NM_007360	0.2078751	21.42114	0.7199639	0.4740186	0.9999368	-5.3500426	1.1549858	302
IRAK2	NM_001570	0.0285575	22.20532	0.0947879	0.9247625	0.9999368	-5.6048627	1.0199918	303
IL9	NM_000590	-0.0488997	17.41291	-0.1777662	0.8594359	0.9999368	-5.4609305	0.9666733	304
TLR7	NM_016562	-0.0960370	21.35230	-0.5660600	0.5732193	0.9999368	-5.4302073	0.9355995	305
CDK1	NM_001786	0.2605336	25.31739	1.0542637	0.2954997	0.9999368	-5.2345904	1.1979217	306
CD160	NM_007053	-0.0346240	18.69891	-0.1220206	0.9032431	0.9999368	-5.4926444	0.9762862	307
IRF1	NM_002198	0.0610870	24.76869	0.2639575	0.7926122	0.9999368	-5.7050117	1.0432515	308
CLEC4C	NM_203503	0.3022424	19.16000	1.3205690	0.1910796	0.9999368	-4.7816700	1.2330595	309
IL22	NM_020525	-0.0134806	17.68201	-0.0550248	0.9562803	0.9999368	-5.4770037	0.9906995	310
ATG16L1	NM_198890	0.0955065	24.66107	0.6110009	0.5432393	0.9999368	-5.5628472	1.0684404	311
XCL2	NM_003175	-0.2219226	21.03540	-0.7612672	0.4491337	0.9999368	-5.3010376	0.8574220	312
NEFL	NM_006158	0.0956908	18.61556	0.2131392	0.8318576	0.9999368	-5.4709731	1.0685770	313
PSEN1	NM_000021	0.0314104	24.92794	0.1686441	0.8665781	0.9999368	-5.7240609	1.0220108	314
CD163	NM_004244	0.2416911	25.14259	1.2848167	0.2032227	0.9999368	-4.9919477	1.1823778	315
DEFB1	NM_005218	0.0432754	21.23675	0.1042176	0.9173042	0.9999368	-5.5501348	1.0304507	316

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
HLA-DQB1	NM_002123	0.0494594	22.04372	0.0525383	0.9582626	0.9999368	-5.6327668	1.0348771	317
KIR_Activating_Subgroup	NM_014512	-0.2585579	18.37662	-1.0101321	0.3160186	0.9999368	-5.0652813	0.8359231	318
IL32	NM_001012633	-0.0354790	27.56043	-0.2030377	0.8397129	0.9999368	-5.6572681	0.9757078	319
C5	NM_001735	0.1664331	21.69140	0.7632319	0.4479692	0.9999368	-5.3225581	1.1222803	320
KIR_Inhibiting_Subgroup	NM_014218	-0.2950770	18.83548	-1.0451418	0.2996644	0.9999368	-5.0461081	0.8150288	321
CD44	NM_001001392	-0.1824052	26.26036	-1.0178178	0.3123780	0.9999368	-5.2479216	0.8812326	322
IRF8	NM_002163	-0.0828588	22.47952	-0.4431587	0.6590599	0.9999368	-5.5398660	0.9441848	323
IL3RA	NM_002183	0.1404193	20.52162	0.6812337	0.4980407	0.9999368	-5.3455669	1.1022254	324
IRF7	NM_001572	0.1667049	24.67770	0.8678527	0.3885323	0.9999368	-5.3946321	1.1224918	325
NT5E	NM_002526	0.3785636	23.73097	1.3004327	0.1978499	0.9999368	-4.9581529	1.3000468	326
IL13RA1	NM_001560	0.1947050	26.70291	1.1242265	0.2648762	0.9999368	-5.1381947	1.1444901	327
CSF2RB	NM_000395	0.1344922	23.10863	0.6480002	0.5191703	0.9999368	-5.4929874	1.0977064	328
CYLD	NM_015247	0.0291570	24.79607	0.2342134	0.8155242	0.9999368	-5.7116842	1.0204157	329
TNFRSF11B	NM_002546	-0.0568937	22.04600	-0.1445178	0.8855201	0.9999368	-5.5717453	0.9613318	330
MPPED1	NM_001044370	0.1834884	18.68596	0.6386842	0.5251772	0.9999368	-5.3298423	1.1356265	331
MICA	NM_000247	0.0624715	23.15116	0.3525323	0.7255312	0.9999368	-5.6046522	1.0442531	332
TAL1	NM_003189	0.0414313	20.39556	0.1762092	0.8606541	0.9999368	-5.5233007	1.0291343	333
ICOS	NM_012092	-0.0410421	20.32177	-0.1744009	0.8620694	0.9999368	-5.5258825	0.9719526	334
TLR9	NM_017442	-0.1244152	21.06666	-0.5284224	0.5989294	0.9999368	-5.4340676	0.9173758	335
CEACAM1	NM_001712	0.0454435	21.71594	0.1849306	0.8538348	0.9999368	-5.5536058	1.0320003	336
TTK	NM_003318	0.0650915	23.91305	0.2607456	0.7950779	0.9999368	-5.6756826	1.0461513	337
IL1RN	NM_000577	0.1487871	22.32116	0.6607615	0.5110012	0.9999368	-5.4099158	1.1086370	338
MBL2	NM_000242	0.2181363	17.57689	0.8477869	0.3995356	0.9999368	-5.1774746	1.1632299	339
KIR3DL2	NM_006737	0.0184668	18.24194	0.0629535	0.9499885	0.9999368	-5.4838228	1.0128825	340
REPS1	NM_001128617	-0.0035633	24.77721	-0.0200255	0.9840817	0.9999368	-5.7354645	0.9975331	341
CD180	NM_005582	-0.0724619	21.55645	-0.4313672	0.6675680	0.9999368	-5.4968762	0.9510138	342

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
PMCH	NM_002674	0.1168879	18.25548	0.4571139	0.6490485	0.9999368	-5.4020936	1.0843931	343
CD63	NM_001780	-0.0022485	28.18196	-0.0140258	0.9888506	0.9999368	-5.6605575	0.9984427	344
TNFRSF4	NM_003327	-0.0638452	21.80694	-0.3158965	0.7530502	0.9999368	-5.5402201	0.9567108	345
CTLA4	NM_005214	0.2191486	21.11553	0.6874231	0.4941579	0.9999368	-5.3654551	1.1640465	346
C3AR1	NM_004054	0.0331957	23.37652	0.2168003	0.8290141	0.9999368	-5.6705756	1.0232763	347
TLR2	NM_003264	0.1119971	23.64991	0.6574978	0.5130840	0.9999368	-5.5094200	1.0807232	348
LTK	NM_001135685	0.1745925	20.35541	0.5644985	0.5742753	0.9999368	-5.4043466	1.1286455	349
LTA	NM_000595	0.0531652	20.42452	0.2781480	0.7817441	0.9999368	-5.5106225	1.0375387	350
PECAM1	NM_000442	-0.0045307	25.22977	-0.0273312	0.9782758	0.9999368	-5.7334017	0.9968645	351
CD244	NM_016382	-0.0242022	19.63220	-0.1138040	0.9097291	0.9999368	-5.5197409	0.9833643	352
STAT2	NM_005419	0.0915543	27.17320	0.6073547	0.5456416	0.9999368	-5.5194639	1.0655175	353
C10orf116	NM_006829	0.2292141	20.75875	0.6904217	0.4922827	0.9999368	-5.3489693	1.1721962	354
IL4R	NM_000418	0.2310925	23.86445	1.1162697	0.2682419	0.9999368	-5.1510961	1.1737234	355
GZMH	NM_033423	-0.0279216	20.94559	-0.1104010	0.9124171	0.9999368	-5.5512153	0.9808323	356
ATG7	NM_001136031	-0.1143855	24.75452	-0.9125388	0.3647143	0.9999368	-5.3593873	0.9237757	357
KLRC1	NM_002259	0.0225119	20.61658	0.1201793	0.9046961	0.9999368	-5.5438091	1.0157265	358
CD3EAP	NM_012099	-0.1917231	23.31946	-0.8344136	0.4069744	0.9999368	-5.3499283	0.8755594	359
ITGA4	NM_000885	-0.0753175	22.61051	-0.4119298	0.6816886	0.9999368	-5.5634011	0.9491332	360
MAP2K1	NM_002755	0.0242742	25.04516	0.1490900	0.8819246	0.9999368	-5.7274651	1.0169680	361
COL3A1	NM_000090	0.0469765	29.71865	0.1431569	0.8865903	0.9999368	-5.6136631	1.0330976	362
CR2	NM_001006658	-0.0388554	20.08905	-0.1740495	0.8623445	0.9999368	-5.5186471	0.9734270	363
IL15	NM_172174	0.1230457	22.63386	0.5993607	0.5509274	0.9999368	-5.4723028	1.0890315	364
PLAU	NM_002658	0.2796805	25.07941	1.0435753	0.3003836	0.9999368	-5.2413153	1.2139261	365
TNFRSF8	NM_152942	0.2318536	20.79936	1.2444333	0.2176191	0.9999368	-4.8906980	1.1743428	366
CX3CL1	NM_002996	0.2071918	23.76625	0.7509994	0.4552483	0.9999368	-5.4315307	1.1544389	367
SPACA3	NM_173847	-0.0965846	18.16213	-0.3748971	0.7089056	0.9999368	-5.4327974	0.9352444	368

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
ICAM4	NM_001039104	0.4950449	20.57605	1.2685644	0.2089289	0.9999368	-4.8559008	1.4093646	369
FOXJ1	NM_001454	0.2670268	24.61212	0.6134428	0.5416883	0.9999368	-5.5593407	1.2033254	370
PDZK1IP1	NM_005764	0.4497597	23.89772	1.2194273	0.2269645	0.9999368	-5.0412844	1.3658128	371
CXCL13	NM_006419	0.1881717	22.03377	0.4023499	0.6887244	0.9999368	-5.5311319	1.1393190	372
IFNB1	NM_002176	0.1486068	19.03201	0.6706297	0.5047315	0.9999368	-5.3216757	1.1084985	373
IL19	NM_013371	0.1374397	18.88535	0.4117632	0.6818101	0.9999368	-5.4331213	1.0999513	374
CD86	NM_175862	-0.0324826	21.82096	-0.1974398	0.8440733	0.9999368	-5.5744924	0.9777364	375
SPO11	NM_198265	0.1369757	17.95916	0.4898210	0.6258396	0.9999368	-5.3811142	1.0995976	376
MCAM	NM_006500	0.1927719	24.03948	0.7158505	0.4765386	0.9999368	-5.4848248	1.1429577	377
TGFB1	NM_000660	0.0480999	24.76637	0.3429378	0.7327048	0.9999368	-5.6832990	1.0339023	378
SMAD3	NM_005902	-0.1666113	25.54766	-0.6754028	0.5017139	0.9999368	-5.5280857	0.8909329	379
HLA-DQA1	NM_002122	-0.0862258	23.05439	-0.0791225	0.9371825	0.9999368	-5.7120591	0.9419839	380
IFITM2	NM_006435	0.0945562	27.16188	0.4432526	0.6589923	0.9999368	-5.6039853	1.0677369	381
NCAM1	NM_000615	-0.2908533	23.79489	-0.6066788	0.5461433	0.9999368	-5.5294897	0.8174185	382
EGR2	NM_000399	0.2889727	22.61766	0.9966256	0.3224852	0.9999368	-5.2177519	1.2217700	383
IFIH1	NM_022168	0.2051022	23.88714	0.9773851	0.3318485	0.9999368	-5.2833419	1.1527680	384
JAK3	NM_000215	0.1020844	22.39010	0.8481336	0.3993439	0.9999368	-5.3075930	1.0733231	385
CD70	NM_001252	-0.2756387	19.64350	-0.9918986	0.3247691	0.9999368	-5.1091038	0.8260845	386
ENG	NM_001114753	-0.1289898	25.90644	-0.5291967	0.5983951	0.9999368	-5.6000838	0.9144716	387
CD3D	NM_000732	0.1199325	21.70481	0.3773897	0.7070612	0.9999368	-5.5238431	1.0866840	388
ALCAM	NM_001627	0.2288960	24.64143	0.8907798	0.3761933	0.9999368	-5.3752051	1.1719378	389
MAPK1	NM_138957	0.1847326	25.52363	0.9876042	0.3268533	0.9999368	-5.2938759	1.1366063	390
ATF2	NM_001256000	0.1401624	25.81276	0.8598417	0.3929024	0.9999368	-5.3951505	1.1020292	391
CD247	NM_198053	0.0247299	21.97898	0.0937295	0.9256001	0.9999368	-5.5950003	1.0172892	392
TRAF3	NM_145725	0.1369760	24.64384	0.9535624	0.3436880	0.9999368	-5.3225250	1.0995978	393
CTHRC1	NM_138455	0.1760470	26.20340	0.6592257	0.5119807	0.9999368	-5.5215419	1.1297841	394

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
ABCB1	NM_000927	0.2442573	21.88140	1.2285658	0.2234764	0.9999368	-4.9368220	1.1844828	395
BCL10	NM_003921	0.1122184	25.54740	0.7822932	0.4367623	0.9999368	-5.4556204	1.0808890	396
TANK	NM_004180	0.1848848	26.14090	1.1552572	0.2520349	0.9999368	-5.1191749	1.1367262	397
NOTCH1	NM_017617	-0.1010647	24.11533	-0.4979643	0.6201185	0.9999368	-5.6027752	0.9323446	398
C8B	NM_000066	0.2933961	18.63670	1.2253971	0.2246597	0.9999368	-4.8670119	1.2255217	399
THBD	NM_000361	0.3106442	23.10725	1.3629504	0.177401	0.9999368	-4.8553141	1.2402614	400
KIF1A	NM_004321	-0.3363459	24.64854	-0.6365219	0.5266356	0.9999368	-5.5347354	0.7920449	401
UBC	NM_021009	0.0514187	30.91208	0.3353814	0.7383715	0.9999368	-5.5549406	1.0362835	402
CDH5	NM_001795	0.0293827	22.94853	0.1366628	0.8917018	0.9999368	-5.6417229	1.0205754	403
IL6R	NM_000565	0.1783730	23.49254	0.6866207	0.4946603	0.9999368	-5.4763477	1.1316070	404
MAVS	NM_020746	0.1602551	26.28031	0.8407435	0.4034430	0.9999368	-5.3988019	1.1174847	405
LBP	NM_004139	0.2942201	19.61434	1.0496641	0.2975947	0.9999368	-5.0525136	1.2262219	406
BST1	NM_004334	0.2371189	23.75458	0.9347380	0.3532362	0.9999368	-5.3093314	1.1786365	407
PRKCE	NM_005400	0.0614408	22.97538	0.2779092	0.7819266	0.9999368	-5.6089647	1.0435074	408
MICB	NM_005931	0.0419031	23.59454	0.1726653	0.8634282	0.9999368	-5.6754980	1.0294709	409
IL22RA1	NM_021258	-0.1227499	20.03314	-0.5221984	0.6032320	0.9999368	-5.4117970	0.9184354	410
PTGDR2	NM_004778	0.2671187	18.66003	1.0017370	0.3200277	0.9999368	-5.0732251	1.2034020	411
KLRB1	NM_002258	0.3346510	20.92401	1.2558904	0.2134606	0.9999368	-4.8881012	1.2610723	412
MNX1	NM_005515	-0.1323895	18.54932	-0.4046496	0.6870072	0.9999368	-5.4208131	0.9123192	413
MAPK11	NM_002751	-0.1571203	20.87317	-0.7638174	0.4476225	0.9999368	-5.3018475	0.8968134	414
NFATC2	NM_012340	0.1224822	24.30500	0.7381556	0.4629639	0.9999368	-5.4823908	1.0886062	415
CD200	NM_005944	0.3212976	24.39622	0.9444844	0.3482742	0.9999368	-5.3268239	1.2494538	416
LAMP2	NM_001122606	-0.2058515	26.08580	-1.0811126	0.2834724	0.9999368	-5.1988664	0.8670268	417
CD55	NM_000574	0.0600691	22.91832	0.2304391	0.8184435	0.9999368	-5.6155797	1.0425157	418
CT45A1	NM_001017417	-0.0523830	21.90367	-0.0798779	0.9365759	0.9999368	-5.5642478	0.9643422	419
ITGAM	NM_000632	0.1366020	23.16304	0.8251486	0.4121772	0.9999368	-5.3759524	1.0993128	420

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
IL23R	NM_144701	0.2577130	18.34684	0.9619738	0.3394766	0.9999368	-5.1053576	1.1955819	421
TNFRSF17	NM_001192	-0.2155483	21.15461	-0.6073877	0.5456199	0.9999368	-5.4077200	0.8612188	422
TREM1	NM_018643	0.4004157	21.95277	1.3086588	0.1950627	0.9999368	-4.8469271	1.3198882	423
MUC1	NM_0010180	0.3395226	27.66668	0.9989170	0.3213820	0.9999368	-5.2278352	1.2653378	424
CLEC7A	NM_197954	0.2554566	22.15400	1.2562383	0.2133352	0.9999368	-4.9269609	1.1937135	425
IFNA8	NM_002170	-0.0352738	17.66446	-0.1254575	0.9005322	0.9999368	-5.4691928	0.9758465	426
TNFSF18	NM_005092	0.0884388	18.92966	0.3230449	0.7476541	0.9999368	-5.4621669	1.0632190	427
FUT5	NM_002034	0.2954868	20.26914	0.8269305	0.4111735	0.9999368	-5.2371390	1.2272990	428
HMGA2	NM_003484	0.2073170	22.79519	0.3795329	0.7055094	0.9999368	-5.5524261	1.1545391	429
CXCL12	NM_000609	0.0294045	24.85063	0.0796954	0.9367186	0.9999368	-5.7344735	1.0205908	430
SLC11A1	NM_000578	0.1194312	23.54276	0.6831340	0.4968468	0.9999368	-5.4807027	1.0863065	431
SAA1	NM_199161	0.5236477	23.67418	0.8139375	0.4186453	0.9999368	-5.3908450	1.4375855	432
IRAK1	NM_001569	0.1442352	25.99673	0.7242119	0.4714240	0.9999368	-5.4890528	1.1051447	433
IL10	NM_000572	0.2694839	20.80533	0.9734715	0.3333747	0.9999368	-5.1513248	1.2053766	434
IFNAR1	NM_000629	-0.0086936	23.96507	-0.0618555	0.9508596	0.9999368	-5.7113519	0.9939921	435
STAT6	NM_003153	0.0833522	26.37911	0.4839776	0.6299593	0.9999368	-5.6096959	1.0594769	436
CCL8	NM_005623	0.0643516	22.24259	0.1989809	0.8428724	0.9999368	-5.6019073	1.0456149	437
IRF3	NM_001571	-0.0655416	23.81080	-0.4857599	0.6287015	0.9999368	-5.5942646	0.9555865	438
IL1RL1	NM_016232	0.2993669	19.25988	1.0361724	0.3037983	0.9999368	-5.0619266	1.2306043	439
THY1	NM_006288	-0.1692779	25.66134	-0.5149969	0.6082279	0.9999368	-5.6021608	0.8892877	440
ASRGL1	NM_025080	0.0443765	24.75552	0.1213493	0.9037794	0.9999368	-5.7271831	1.0312374	441
ATG5	NM_004849	0.0605807	24.66320	0.2415188	0.8098810	0.9999368	-5.7077280	1.0428855	442
CCL7	NM_006273	0.2226700	19.35280	0.8375221	0.4052379	0.9999368	-5.2196984	1.1668912	443
HLA-E	NM_005516	-0.0135126	27.95681	-0.0844972	0.9329098	0.9999368	-5.6604774	0.9906775	444
IL22RA2	NM_181310	0.2647655	18.62837	1.0293102	0.3069871	0.9999368	-5.0515493	1.2014408	445
ABL1	NM_005157	0.1597135	24.98638	0.6589635	0.5121480	0.9999368	-5.5395242	1.1170652	446

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
NUP107	NM_020401	0.0586706	25.60582	0.2907538	0.7721260	0.9999368	-5.6938856	1.0415056	447
PLA2G6	NM_001004406	0.1266610	24.40262	0.5885688	0.5581037	0.9999368	-5.5683661	1.0917639	448
DOCK9	NM_001130048	-0.1011184	25.46557	-0.6501892	0.5177642	0.9999368	-5.5432218	0.9323100	449
TIGIT	NM_173799	0.1073980	21.37840	0.3182542	0.7512691	0.9999368	-5.5293664	1.0772836	450
TCF7	NM_003202	-0.1235602	23.11633	-0.5253897	0.6010241	0.9999368	-5.5342702	0.9179197	451
CXCL11	NM_005409	0.0588142	23.79283	0.1209760	0.9040772	0.9999368	-5.7109585	1.0416093	452
LCN2	NM_005564	0.5913982	26.25079	1.1767853	0.2435038	0.9999368	-5.1007331	1.5067063	453
BLK	NM_001715	0.0857071	18.60542	0.4029240	0.6882701	0.9999368	-5.4310021	1.0612077	454
CCL5	NM_002985	0.2250865	24.28731	0.5919595	0.5558868	0.9999368	-5.5730754	1.1688473	455
FCGR2B	NM_001002273	-0.0000184	24.04916	-0.0000795	0.9999368	0.9999368	-5.7257668	0.9999872	456
DUSP6	NM_001946	0.2500181	25.98243	0.8222428	0.4138172	0.9999368	-5.4228913	1.1892221	457
S100A7	NM_002963	0.6445131	21.00965	0.9802799	0.3305242	0.9999368	-5.1198356	1.5632116	458
CD79A	NM_001783	-0.3637384	22.01794	-0.7474882	0.4574192	0.9999368	-5.3677758	0.7771482	459
CCL14	NM_032963	0.3186453	21.68573	0.7963049	0.4286329	0.9999368	-5.3085515	1.2471589	460
CCRL2	NM_003965	0.1496471	21.49883	1.0380682	0.3029214	0.9999368	-5.1061819	1.1092981	461
KIT	NM_000222	-0.0215675	20.52505	-0.0537505	0.9572918	0.9999368	-5.5362575	0.9851618	462
CREBBP	NM_004380	0.2125887	22.00919	0.9084464	0.3668560	0.9999368	-5.2336801	1.1587655	463
CTSH	NM_004390	-0.2028878	25.66865	-1.1530020	0.2529529	0.9999368	-5.1335146	0.8688098	464
ITGAL	NM_002209	0.0310069	22.86252	0.1184861	0.9060324	0.9999368	-5.6590238	1.0217250	465
FCER2	NM_002002	-0.2954236	18.43275	-1.2411562	0.2188195	0.9999368	-4.8522908	0.8148331	466
NFATC4	NM_001136022	0.1003581	24.41217	0.3069949	0.7597869	0.9999368	-5.6884853	1.0720395	467
PSMB7	NM_002799	-0.0319162	27.08035	-0.1904065	0.8495588	0.9999368	-5.6778546	0.9781203	468
MS4A2	NM_000139	0.3302185	18.60732	1.2552613	0.2136874	0.9999368	-4.8431542	1.2572037	469
IL4	NM_000589	-0.2162945	17.94192	-0.6958616	0.4888908	0.9999368	-5.2876540	0.8607735	470
REL	NM_002908	0.1859557	24.17731	1.1882408	0.2388786	0.9999368	-5.0895382	1.1375703	471
TNFSF4	NM_003326	0.0260574	22.27209	0.1207236	0.9042660	0.9999368	-5.6077735	1.0182257	472

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
CD40LG	NM_000074	0.1809808	19.73884	0.7427125	0.4602179	0.9999368	-5.2946576	1.1336543	473
HLA-DRB3	NM_022555	-0.1145803	27.99272	-0.3978827	0.6919650	0.9999368	-5.5911372	0.9236510	474
IL12RB1	NM_005535	-0.0115599	21.51009	-0.0605107	0.9519267	0.9999368	-5.5759385	0.9920193	475
CREB5	NM_182898	0.2942677	22.63946	1.0357928	0.3039741	0.9999368	-5.1605694	1.2262624	476
CD276	NM_001024700	0.0178726	26.32276	0.0840647	0.9332524	0.9999368	-5.7163954	1.0124654	477
MAPK8	NM_002750	0.0868113	24.56534	0.4167627	0.6781668	0.9999368	-5.6480235	1.0620203	478
ITGA5	NM_002205	0.1018997	24.49558	0.4626434	0.6450994	0.9999368	-5.6366357	1.0731857	479
MAP4K2	NM_004579	-0.0228141	23.56507	-0.1092616	0.9133173	0.9999368	-5.6791693	0.9843108	480
CREB1	NM_004379	0.1261688	25.63881	0.7530464	0.4540254	0.9999368	-5.4759556	1.0913916	481
MAP3K1	NM_005921	0.1420275	25.06366	0.7762417	0.4403022	0.9999368	-5.4639185	1.1034548	482
IL18	NM_001562	-0.1387186	23.05963	-0.7646459	0.4471321	0.9999368	-5.3887959	0.9083256	483
CX3CR1	NM_001337	-0.0435030	22.56365	-0.1711766	0.8645941	0.9999368	-5.6142350	0.9702961	484
PVR	NM_006505	-0.1322273	24.57324	-0.6684092	0.5061387	0.9999368	-5.5263344	0.9124217	485
MAPK14	NM_001315	-0.0464424	26.24656	-0.2639096	0.7926490	0.9999368	-5.6910203	0.9683212	486
MASP1	NM_139125	-0.1143536	19.15972	-0.3065273	0.7601413	0.9999368	-5.4749118	0.9237961	487
BAGE	NM_001187	0.2338703	19.04510	0.8782062	0.3829292	0.9999368	-5.1793004	1.1759855	488
CYFIP2	NM_001037332	0.0240913	24.14794	0.1131624	0.9102357	0.9999368	-5.7167830	1.0168390	489
IL13	NM_002188	-0.0224061	18.79364	-0.1032666	0.9180558	0.9999368	-5.5002553	0.9845892	490
SPINK5	NM_006846	0.1066246	21.57366	0.2610401	0.7948525	0.9999368	-5.5321016	1.0767062	491
FCGR2A	NM_021642	0.0333012	25.14848	0.2253649	0.8223724	0.9999368	-5.7119885	1.0233511	492
COL1A2	NM_000089	0.0006772	28.80301	0.0020785	0.9983477	0.9999368	-5.6455937	1.0004695	493
NFATC3	NM_004555	0.0714505	24.40734	0.3397318	0.7351073	0.9999368	-5.6716548	1.0507726	494
DMBT1	NM_007329	-0.0310214	21.14449	-0.0624808	0.9503685	0.9999368	-5.5436050	0.9787271	495
BCL2	NM_000657	0.0404238	24.38024	0.1249813	0.9009077	0.9999368	-5.7151022	1.0284159	496
IFNG	NM_000619	0.2517184	19.47233	0.8490581	0.3988329	0.9999368	-5.2165469	1.1906244	497
KLRD1	NM_002262	0.0371152	19.66609	0.1568028	0.8758657	0.9999368	-5.5184382	1.0260601	498

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
TBX21	NM_013351	0.0246802	20.54614	0.1255451	0.9004630	0.9999368	-5.5372921	1.0172542	499
EPCAM	NM_002354	0.1790563	27.36881	0.5659657	0.5732831	0.9999368	-5.5553358	1.1321431	500
CD34	NM_001025109	-0.2477341	22.25626	-1.0426733	0.3007983	0.9999368	-5.1448434	0.8422182	501
CD4	NM_000616	0.0585107	24.21319	0.3832615	0.7027234	0.9999368	-5.6630748	1.0413902	502
TNFRSF10B	NM_003842	0.1346945	23.57565	0.6247269	0.5342443	0.9999368	-5.4989661	1.0978603	503
PAX5	NM_016734	0.1235428	19.02051	0.5377947	0.5924774	0.9999368	-5.3846453	1.0894068	504
TAPBP	NM_003190	0.2264470	27.28044	1.2478109	0.2163870	0.9999368	-4.9924816	1.1699501	505
C2	NM_000063	0.3022062	24.86079	1.2794979	0.2050772	0.9999368	-5.0000961	1.2330286	506
FYN	NM_002037	0.0038020	25.33590	0.0153703	0.9877819	0.9999368	-5.7356620	1.0026388	507
BIRC5	NM_001168	0.0505451	24.95319	0.1764710	0.8604493	0.9999368	-5.7233501	1.0356562	508
ADA	NM_000022	0.0086329	23.17331	0.0432191	0.9656537	0.9999368	-5.6656330	1.0060018	509
CD7	NM_006137	0.2111968	21.00269	0.8395615	0.4041010	0.9999368	-5.2571679	1.1576481	510
CTCFL	NM_001269004	0.5070418	23.33631	0.8542559	0.3960503	0.9999368	-5.3255728	1.4211332	511
CTAGE1	NM_172241	0.0951478	18.00460	0.3238784	0.7470257	0.9999368	-5.4390787	1.0681749	512
NFATC1	NM_172389	0.1549900	22.72725	0.8722054	0.3861705	0.9999368	-5.3068432	1.1134139	513
MAGEC1	NM_005462	-0.1064774	18.51844	-0.2751729	0.7840191	0.9999368	-5.4678659	0.9288533	514
CCL22	NM_002990	0.1991247	20.03465	0.9656381	0.3376525	0.9999368	-5.1316364	1.1480016	515
TP53	NM_000546	0.3247183	25.61036	1.0500203	0.2974321	0.9999368	-5.2343251	1.2524198	516
PLA2G1B	NM_000928	0.0612348	19.37940	0.1805343	0.8572709	0.9999368	-5.5000089	1.0433584	517
FEZ1	NM_005103	0.0436064	23.41758	0.1632056	0.8708414	0.9999368	-5.6682702	1.0306871	518
SEMG1	NM_003007	-0.0536882	18.06320	-0.1719661	0.8639757	0.9999368	-5.4687352	0.9634701	519
POU2F2	NM_002698	-0.2172153	21.64402	-1.2864854	0.2026434	0.9999368	-4.8682217	0.8602242	520
PSMB9	NM_002800	0.1682871	25.62897	0.5998799	0.5505832	0.9999368	-5.5659335	1.1237235	521
TARP	NM_001003799	0.1206692	21.29280	0.4680736	0.6412312	0.9999368	-5.4761845	1.0872391	522
PNMA1	NM_006029	0.0471021	25.05843	0.2012392	0.8411133	0.9999368	-5.7190977	1.0331875	523
BTK	NM_000061	0.0405664	21.85162	0.2082178	0.8356823	0.9999368	-5.5800707	1.0285175	524

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
ICAM2	NM_000873	-0.1741212	22.97409	-0.8008499	0.4260123	0.9999368	-5.3712142	0.8863072	525
CD99	NM_002414	0.0414237	27.41958	0.2458704	0.8065244	0.9999368	-5.6494524	1.0291289	526
MR1	NM_001531	-0.0080328	22.33852	-0.0482146	0.9616868	0.9999368	-5.6078656	0.9944476	527
HLA-G	NM_002127	0.2850572	24.89714	1.2196678	0.2268110	0.9999368	-5.0669988	1.2184585	528
TNFRSF1B	NM_001066	0.0335134	23.76598	0.2682831	0.7892949	0.9999368	-5.6758046	1.0235017	529
HLA-DRB4	NM_021983	-0.1102517	20.80751	-0.1251113	0.9008231	0.9999368	-5.5406280	0.9264264	530
IL24	NM_181339	0.2101615	18.53962	1.0630131	0.2915425	0.9999368	-5.0232495	1.1568177	531
ARG2	NM_001172	0.3434167	22.04309	1.1463455	0.2556765	0.9999368	-5.0151358	1.2687578	532
MERTK	NM_006343	-0.0829792	24.74346	-0.3687486	0.7134626	0.9999368	-5.6748540	0.9441061	533
CYP4B1	NM_001099772	-0.0606915	24.41209	-0.1417358	0.8877197	0.9999368	-5.7172927	0.9588045	534
MX1	NM_002462	0.1329683	27.50593	0.5374732	0.5926982	0.9999368	-5.5438684	1.0965475	535
IGHM	ENSG00000211899	-0.1599443	25.34031	-0.2303371	0.8185561	0.9999368	-5.7086737	0.8950596	536
CD68	NM_001251	-0.0435558	25.23465	-0.2605838	0.7952023	0.9999368	-5.7030217	0.9702606	537
TNFRSF12A	NM_016639	0.2455179	22.54746	1.1193524	0.2669344	0.9999368	-5.0819503	1.1855183	538
HAVCR2	NM_032782	-0.0203019	22.93403	-0.1115102	0.9115408	0.9999368	-5.6541964	0.9860263	539
IFNAR2	NM_000874	0.1486270	25.71495	1.2357368	0.2208152	0.9999368	-5.0412647	1.1085140	540
ECSIT	NM_001142464	-0.3081119	23.88777	-1.3478201	0.1821966	0.9999368	-4.8909666	0.8076981	541
MEST	NM_177525	0.1876091	26.50004	0.5133310	0.6094111	0.9999368	-5.5975041	1.1388748	542
MAF	NM_005360	-0.0532458	24.38576	-0.2815272	0.7791624	0.9999368	-5.6963516	0.9637656	543
CHIT1	NM_003465	-0.0458340	20.83283	-0.1612488	0.8723763	0.9999368	-5.5459456	0.9687296	544
DCN	NM_001920	0.2861747	27.35851	0.7979206	0.4277011	0.9999368	-5.3872130	1.2194027	545
C1QB	NM_000491	-0.0741172	26.64409	-0.3356307	0.7381843	0.9999368	-5.6448305	0.9499232	546
BST2	NM_004335	0.1677293	27.47913	0.5511080	0.5833688	0.9999368	-5.5359744	1.1232892	547
IFNA7	NM_021057	0.1713852	18.73570	0.6300816	0.5307562	0.9999368	-5.3351749	1.1261392	548
BATF	NM_006399	0.2264242	21.23432	0.9845935	0.3283197	0.9999368	-5.1445159	1.1699316	549
LILRA1	NM_006863	0.1323949	19.41819	0.8224465	0.4137021	0.9999368	-5.2293034	1.0961118	550

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
AKT3	NM_181690	0.2743862	24.59177	0.9521395	0.3444038	0.9999368	-5.3239155	1.2094794	551
LCK	NM_005356	-0.0189059	22.00211	-0.0769943	0.9388545	0.9999368	-5.6004257	0.9869809	552
HSD11B1	NM_181755	0.0553896	21.52779	0.1779541	0.8592890	0.9999368	-5.5653752	1.0391397	553
LCP1	NM_002298	0.0902358	25.82161	0.4601115	0.6469064	0.9999368	-5.6329528	1.0645441	554
ATF1	NM_005171	0.1002728	25.02067	0.6125747	0.5422041	0.9999368	-5.5669152	1.0719761	555
IGF1R	NM_000875	0.1446706	25.94983	0.3555636	0.7232993	0.9999368	-5.6706676	1.1054782	556
MAPKAPK2	NM_004759	0.0480436	25.67381	0.3213809	0.7489091	0.9999368	-5.6843589	1.0338620	557
IRF4	NM_002460	-0.2253609	22.42106	-0.6252472	0.5333949	0.9999368	-5.4565561	0.8553810	558
JAK2	NM_004972	-0.0948151	24.90977	-0.6169862	0.5393075	0.9999368	-5.5641732	0.9363922	559
LTBR	NM_002342	0.1322632	26.56875	0.6236385	0.5349548	0.9999368	-5.5394217	1.0960117	560
TFE3	NM_006521	0.0729033	23.29576	0.4489008	0.6549328	0.9999368	-5.5772019	1.0518312	561
TMEFF2	NM_016192	0.0271175	18.74887	0.0641833	0.9490128	0.9999368	-5.4961315	1.0189742	562
MAGEA3	NM_005362	-0.2217765	18.91984	-0.5767616	0.5660080	0.9999368	-5.3607806	0.8575089	563
CEACAM8	NM_001816	0.1006554	18.00333	0.4264557	0.6711250	0.9999368	-5.4086595	1.0722605	564
CD79B	NM_021602	-0.1150858	21.16609	-0.4426708	0.6594111	0.9999368	-5.4827016	0.9233274	565
TPTE	NM_199259	-0.2538250	18.79230	-1.0581087	0.2937562	0.9999368	-5.0354738	0.8386699	566
TNFSF11	NM_003701	0.1033166	18.43478	0.3467063	0.7298843	0.9999368	-5.4464738	1.0742402	567
KIR3DL3	NM_153443	-0.1921639	17.69385	-0.6489070	0.5185876	0.9999368	-5.2990619	0.8752919	568
ZAP70	NM_001079	0.0363275	21.58220	0.1705694	0.8650697	0.9999368	-5.5688528	1.0255000	569
HLA-B	NM_005514	-0.0356437	28.72546	-0.1435518	0.8862796	0.9999368	-5.6410577	0.9755963	570
CTSL	NM_001912	-0.1341071	25.65123	-0.7945241	0.4296590	0.9999368	-5.4464092	0.9112336	571
MARCO	NM_006770	0.4298951	22.20988	1.3104490	0.1944600	0.9999368	-4.8747971	1.3471356	572
PDGFRB	NM_002609	0.1226414	24.95007	0.4127901	0.6810611	0.9999368	-5.6588105	1.0887264	573
ELANE	NM_001972	-0.0962810	18.31954	-0.3167741	0.7523870	0.9999368	-5.4503666	0.9354413	574
MAGEC2	NM_016249	-0.3223698	18.88436	-0.6542813	0.5151891	0.9999368	-5.3223594	0.7997551	575
IFIT1	NM_001548	-0.0360971	25.70553	-0.1460216	0.8843370	0.9999368	-5.7204173	0.9752898	576

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
TNFSF13	NM_003808	0.1994133	23.77229	1.3414836	0.1842336	0.9999368	-4.9077351	1.1482313	577
ISG15	NM_005101	0.1936966	26.80286	0.6293149	0.5312549	0.9999368	-5.5154404	1.1436904	578
SORL1	NM_003105	-0.1490087	27.02418	-0.5556844	0.5802533	0.9999368	-5.5648409	0.9018699	579
LILRA4	NM_012276	0.2700897	18.43831	1.3072273	0.1955456	0.9999368	-4.7848030	1.2058828	580
FCGR3A	NM_000569	-0.0045751	25.39887	-0.0191560	0.9847729	0.9999368	-5.7296014	0.9968338	581
PASD1	NM_173493	-0.0166571	18.23047	-0.0441385	0.9649236	0.9999368	-5.4803880	0.9885206	582
TLR3	NM_003265	-0.1166869	22.88226	-0.5887721	0.5579680	0.9999368	-5.4958219	0.9223032	583
CFP	NM_002621	-0.0216666	20.59566	-0.0823319	0.9346251	0.9999368	-5.5368178	0.9850941	584
ITGAE	NM_002208	0.0997035	23.41184	0.5466437	0.5864157	0.9999368	-5.5459979	1.0715532	585
IGLL1	NM_020070	-0.0869019	17.75706	-0.3513129	0.7264416	0.9999368	-5.4272073	0.9415425	586
EZR	NM_003379	-0.0641930	27.41838	-0.3500428	0.7273902	0.9999368	-5.6267985	0.9564802	587
MASP2	NM_139208	0.0181067	18.45893	0.0699251	0.9444588	0.9999368	-5.4907842	1.0126297	588
RUNX1	NM_001754	-0.0198467	24.54640	-0.1049399	0.9167329	0.9999368	-5.7291429	0.9863375	589
IL3	NM_000588	-0.0264772	18.06416	-0.1003972	0.9220349	0.9999368	-5.4761572	0.9818148	590
MME	NM_000902	-0.0975896	22.07191	-0.2612499	0.7946907	0.9999368	-5.5589249	0.9345932	591
CDKN1A	NM_000389	0.0461206	24.24431	0.2101678	0.8341661	0.9999368	-5.7052136	1.0324848	592
SYCP1	NM_003176	0.0865261	18.73371	0.2695323	0.7883376	0.9999368	-5.4686290	1.0618103	593
FADD	NM_003824	-0.0928084	23.47517	-0.4977601	0.6202616	0.9999368	-5.5658075	0.9376956	594
ZNF205	NM_001031686	-0.0745109	22.85407	-0.3641598	0.7168704	0.9999368	-5.5709432	0.9496640	595
CD8A	NM_001768	-0.2561658	22.35317	-0.8155868	0.4175887	0.9999368	-5.3199450	0.8373102	596
RUNX3	NM_004350	0.1985655	23.55593	0.7409907	0.4612544	0.9999368	-5.4309842	1.1475568	597
CD38	NM_001775	0.1471562	22.39036	0.4677474	0.6414633	0.9999368	-5.5389331	1.1073845	598
APP	NM_000484	0.0671806	28.42861	0.2612515	0.7946895	0.9999368	-5.6277251	1.0476672	599
CCL24	NM_002991	0.2078850	17.45195	0.7111711	0.4794145	0.9999368	-5.2633466	1.1549938	600
FN1	NM_212482	0.3165760	28.05932	1.0767353	0.2854098	0.9999368	-5.1447232	1.2453714	601
RAG1	NM_000448	0.0078746	20.30279	0.0377752	0.9699778	0.9999368	-5.5354753	1.0054732	602

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
NOD1	NM_006092	-0.0520854	23.30878	-0.3323375	0.7406584	0.9999368	-5.6304943	0.9645411	603
NLRC5	NM_032206	-0.0138916	23.89377	-0.0647987	0.9485247	0.9999368	-5.7152524	0.9904173	604
ISG20	NM_002201	0.0622585	23.64236	0.2667961	0.7904348	0.9999368	-5.6798624	1.0440990	605
TREM2	NM_018965	-0.2401205	21.59950	-1.3463581	0.1826651	0.9999368	-4.8009112	0.8466746	606
ZNF423	NM_015069	0.1870845	23.01766	0.3762965	0.7079013	0.9999368	-5.5661339	1.1384607	607
HRAS	NM_005343	0.0916049	22.42572	0.5206948	0.6042735	0.9999368	-5.4920634	1.0655549	608
IKBKB	NM_001556	0.2262790	24.49241	1.2093017	0.2307414	0.9999368	-5.0725563	1.1698139	609
SOCS1	NM_003745	0.1141480	23.01756	0.5071568	0.6136882	0.9999368	-5.5439293	1.0823356	610
TLR5	NM_003268	0.0509421	22.40221	0.2664890	0.7906703	0.9999368	-5.5801476	1.0359412	611
XCR1	NM_005283	0.1381769	19.21991	0.5533904	0.5818140	0.9999368	-5.3801997	1.1005135	612
IFNL2	NM_172138	0.3202039	18.92698	0.9526279	0.3441580	0.9999368	-5.1170175	1.2485070	613
FAS	NM_000043	-0.0448845	21.52037	-0.2079038	0.8359265	0.9999368	-5.5527598	0.9693674	614
EOMES	NM_005442	-0.2147843	19.16174	-0.9047223	0.3688119	0.9999368	-5.1663489	0.8616750	615
LTF	NM_002343	0.4766282	21.27716	0.9893299	0.3261086	0.9999368	-5.1481086	1.3914877	616
ANP32B	NM_006401	-0.0284447	26.87481	-0.1664440	0.8683023	0.9999368	-5.6941791	0.9804767	617
IL2RB	NM_000878	0.0427327	22.47785	0.1406218	0.8885851	0.9999368	-5.6295557	1.0300631	618
IL25	NM_022789	0.1661169	18.15517	0.6545555	0.5149654	0.9999368	-5.3027833	1.1220344	619
PYCARD	NM_013258	-0.0349475	22.26230	-0.2241321	0.8233277	0.9999368	-5.5911815	0.9760673	620
MAGEA12	NM_001166386	0.1964207	18.45529	0.5830093	0.5618187	0.9999368	-5.3538383	1.1458520	621
CD37	NM_001774	-0.0178439	21.04433	-0.1015444	0.9194176	0.9999368	-5.5588911	0.9877077	622
TAGLN	NM_003186	0.2091390	27.25315	0.6146738	0.5408248	0.9999368	-5.5122551	1.1559981	623
LAMP1	NM_005561	0.0108040	27.71164	0.0655798	0.9479051	0.9999368	-5.6724686	1.0075169	624
KLRF1	NM_016523	0.1968258	20.89242	0.6208046	0.5368069	0.9999368	-5.3772590	1.1461738	625
CD59	NM_000611	-0.0665991	27.73730	-0.4468612	0.6563976	0.9999368	-5.5821733	0.9548863	626
CXCR1	NM_000634	0.1093408	19.91278	0.6600237	0.5114716	0.9999368	-5.3399255	1.0787352	627
IL5RA	NM_000564	0.0662214	19.51846	0.1875580	0.8517826	0.9999368	-5.5043805	1.0469709	628

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
IL34	NM_152456	0.3409759	21.41785	1.2932454	0.2003094	0.9999368	-4.8478791	1.2666131	629
TBK1	NM_013254	0.0431299	24.62965	0.2846880	0.7767497	0.9999368	-5.6965018	1.0303467	630
BMI1	NM_005180	-0.0826905	24.94208	-0.3304265	0.7420953	0.9999368	-5.6834771	0.9442950	631
IL17A	NM_002190	0.0142759	18.18147	0.0473148	0.9624012	0.9999368	-5.4886800	1.0099444	632
BAX	NM_138761	-0.0115628	25.51912	-0.0736798	0.9414818	0.9999368	-5.7326272	0.9920173	633
IL1RL2	NM_003854	0.1483029	20.77576	0.7240849	0.4715014	0.9999368	-5.3146648	1.1082650	634
STAT4	NM_003151	-0.0718141	21.15992	-0.3898776	0.6978475	0.9999368	-5.4938571	0.9514408	635
CD28	NM_001243078	0.0600845	20.25174	0.3115593	0.7563302	0.9999368	-5.4933348	1.0425268	636
LAMP3	NM_014398	0.0882274	23.47179	0.2712889	0.7869920	0.9999368	-5.6463232	1.0630633	637
TYK2	NM_003331	-0.1148686	25.13100	-0.4989252	0.6194449	0.9999368	-5.6243877	0.9234664	638
SSX4	NM_005636	-0.2913804	18.58280	-0.5001368	0.6186393	0.9999368	-5.3877795	0.8171199	639
LILRB3	NM_006864	0.2481123	20.76877	1.3726778	0.1743701	0.9999368	-4.7501669	1.1876521	640
TSPAN8	NM_004616	-0.0916526	23.12918	-0.1514100	0.8801137	0.9999368	-5.6125361	0.9384472	641
CXCL10	NM_001565	0.2233657	24.32721	0.4710678	0.6391441	0.9999368	-5.6322807	1.1674540	642
RRAD	NM_004165	-0.0252531	20.53669	-0.0833337	0.9338315	0.9999368	-5.5422717	0.9826482	643
CCR1	NM_001295	0.0800169	22.64130	0.4744307	0.6367152	0.9999368	-5.5360292	1.0570304	644
ITGA6	NM_000210	-0.1383781	25.12780	-0.6685919	0.5060228	0.9999368	-5.5343714	0.9085400	645
CRP	NM_000567	0.0282569	18.15751	0.1128963	0.9104459	0.9999368	-5.4791480	1.0197793	646
MSR1	NM_002445	-0.0967365	24.53238	-0.6079670	0.5452379	0.9999368	-5.5665452	0.9351460	647
ULBP2	NM_025217	0.2171855	19.32297	0.7792939	0.4385147	0.9999368	-5.2574005	1.1624636	648
ITGB3	NM_000212	0.1330293	22.63443	0.5411271	0.5901912	0.9999368	-5.4971459	1.0965938	649
RIPK2	NM_003821	0.1488160	24.54534	0.9877797	0.3267679	0.9999368	-5.2908233	1.1086592	650
GZMM	NM_005317	0.1047813	20.08815	0.5439903	0.5882303	0.9999368	-5.4078706	1.0753313	651
RELA	NM_021975	-0.0147551	24.59939	-0.1088185	0.9136674	0.9999368	-5.7257179	0.9898247	652
S100A8	NM_002964	0.6065941	23.92161	1.1852171	0.2401775	0.9999368	-5.0744709	1.5226603	653
CSF1R	NM_005211	0.0093766	22.32509	0.0528788	0.9579838	0.9999368	-5.6259085	1.0065206	654

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
CHUK	NM_001278	-0.1326411	24.80597	-0.7800758	0.4380574	0.9999368	-5.4598141	0.9121600	655
CCL1	NM_002981	-0.0075079	18.28158	-0.0350436	0.9721478	0.9999368	-5.4892770	0.9948095	656
F12	NM_000505	-0.2718676	20.50985	-0.7504295	0.4555890	0.9999368	-5.2937836	0.8282467	657
LY86	NM_004271	-0.0742758	21.77631	-0.4956498	0.6217421	0.9999368	-5.4784980	0.9498188	658
MYD88	NM_002468	0.0878502	25.40571	0.6051963	0.5470662	0.9999368	-5.5671600	1.0627854	659
IFNL1	NM_172140	0.0472824	19.57384	0.2777186	0.7820724	0.9999368	-5.4885846	1.0333166	660
LYN	NM_002350	-0.0336641	23.48374	-0.1967413	0.8446178	0.9999368	-5.6650450	0.9769360	661
EWSR1	NM_013986	0.0906606	26.59787	0.5787692	0.5646602	0.9999368	-5.5555771	1.0648577	662
CSF1	NM_000757	0.1922124	23.81028	1.0486698	0.2980490	0.9999368	-5.2200352	1.1425144	663
NFKB2	NM_002502	0.0950053	25.08860	0.6817774	0.4976990	0.9999368	-5.5264472	1.0680694	664
SMAD2	NM_005901	0.2163365	25.72354	1.1268609	0.2637685	0.9999368	-5.1572974	1.1617797	665
IL11RA	NM_147162	0.0363263	22.69161	0.1117784	0.9113289	0.9999368	-5.6331294	1.0254991	666
GNLY	NM_006433	0.3640289	21.71483	1.3198786	0.1913088	0.9999368	-4.8365437	1.2870150	667
CSF3	NM_000759	0.0541972	18.24339	0.2636685	0.7928340	0.9999368	-5.4588449	1.0382812	668
F2RL1	NM_005242	0.1165468	23.39715	0.4949016	0.6222675	0.9999368	-5.5751780	1.0841368	669
CEACAM6	NM_002483	0.3220359	20.77095	0.8223021	0.4137837	0.9999368	-5.2521892	1.2500934	670
CCL27	NM_006664	-0.0603924	18.57593	-0.2140685	0.8311353	0.9999368	-5.4802813	0.9590033	671
ENTPD1	NM_001098175	-0.0595185	23.17459	-0.3028640	0.7629196	0.9999368	-5.6344825	0.9595844	672
CTAG1B	NM_001327	-0.5580453	21.33793	-0.7350953	0.4649190	0.9999368	-5.3252613	0.6792218	673
CXCL9	NM_002416	-0.1619535	24.32195	-0.3229034	0.7477882	0.9999368	-5.6871117	0.8938140	674
BCL2L1	NM_001191	0.0895879	26.39214	0.4583771	0.6481455	0.9999368	-5.6174211	1.0640662	675
RPS6	NM_001010	-0.1925667	31.19181	-1.0399624	0.3020469	0.9999368	-5.1303315	0.8750476	676
IDO1	NM_002164	-0.1192182	24.00035	-0.2782988	0.7816515	0.9999368	-5.6869343	0.9206865	677
FCGR1A	NM_000566	-0.0547998	20.69187	-0.3314584	0.7413192	0.9999368	-5.5057746	0.9627280	678
TNFSF8	NM_001244	-0.0962274	20.71754	-0.6295087	0.5311288	0.9999368	-5.3816587	0.9354760	679
IL1RAPL2	NM_017416	0.2020686	20.44107	0.7196520	0.4742094	0.9999368	-5.3117415	1.1503466	680

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
SH2D1B	NM_053282	-0.0585148	19.50369	-0.2492200	0.8039431	0.9999368	-5.4939379	0.9602521	681
IFIT2	NM_001547	0.2078825	24.10669	0.9486361	0.3461703	0.9999368	-5.3162010	1.1549917	682
ITCH	NM_001257108	-0.0347565	26.01854	-0.1845405	0.8541396	0.9999368	-5.7107494	1.0243839	683
CXCR6	NM_006564	0.2354080	21.21758	0.8822873	0.3807347	0.9999368	-5.2368359	1.1772396	684
NCF4	NM_000631	-0.0063465	22.31365	-0.0403195	0.9679567	0.9999368	-5.6213383	0.9956106	685
A2M	NM_000014	0.0155943	27.09565	0.0972939	0.9227797	0.9999368	-5.6841834	1.0108678	686
ROPN1	NM_017578	-0.0403392	19.67436	-0.1923599	0.8480345	0.9999368	-5.5070754	0.9724263	687
CD8B	NM_004931	-0.3440093	21.51349	-1.1059637	0.2726459	0.9999368	-5.0373974	0.7878488	688
SPARC	NM_003118	-0.0207539	29.25081	-0.0702573	0.9441954	0.9999368	-5.6338696	0.9857175	689
C1QBP	NM_001212	-0.0129010	26.94420	-0.0820781	0.9348261	0.9999368	-5.6947162	0.9910975	690
IL12RB2	NM_001559	0.1970809	20.35730	0.9254041	0.3580335	0.9999368	-5.1684731	1.1463765	691
NRP1	NM_003873	0.0102133	26.26457	0.0332161	0.9735997	0.9999368	-5.7121686	1.0071044	692
CAMP	NM_004345	-0.0215526	18.60572	-0.0656537	0.9478465	0.9999368	-5.4993733	0.9851719	693
TGFB2	NM_003238	-0.0921962	23.34705	-0.2898881	0.7727854	0.9999368	-5.6288154	0.9380936	694
IL18RAP	NM_003853	0.2601838	20.20910	1.1318301	0.2616878	0.9999368	-4.9935422	1.1976313	695
MS4A1	NM_152866	0.0072923	19.60554	0.0211177	0.9832137	0.9999368	-5.5215176	1.0050675	696
IFNA1	NM_024013	0.3552773	18.16846	1.2273319	0.2239367	0.9999368	-4.8573238	1.2792315	697
PIK3CG	NM_002649	0.0569005	22.75898	0.3092859	0.7580513	0.9999368	-5.6078357	1.0402285	698
CD80	NM_005191	0.0407795	21.23936	0.2387303	0.8120338	0.9999368	-5.5384626	1.0286694	699
IFI27	NM_005532	0.1709470	28.98816	0.4895529	0.6260284	0.9999368	-5.5362703	1.1257972	700
SH2B2	NM_020979	0.2077794	23.01528	0.8744913	0.3849338	0.9999368	-5.3013489	1.1549091	701
CTSS	NM_004079	0.1625793	26.49208	0.7656267	0.4465520	0.9999368	-5.4361056	1.1192865	702
IL27	NM_145659	0.0746676	19.05764	0.3540881	0.7243702	0.9999368	-5.4563118	1.0531184	703
IFNA17	NM_021268	0.1264347	18.59532	0.4340995	0.6655927	0.9999368	-5.4214535	1.0915927	704
PDCD1	NM_005018	-0.0377127	19.83051	-0.1176831	0.9066662	0.9999368	-5.5259255	0.9741982	705
PSMD7	NM_002811	-0.0090498	26.48803	-0.0545266	0.9566757	0.9999368	-5.7131147	0.9937468	706

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
IL18R1	NM_003855	0.3245377	21.78128	1.3453220	0.1829976	0.9999368	-4.8008575	1.2522631	707
MYCN	NM_005378	0.0961770	23.00479	0.1891426	0.8505609	0.9999368	-5.6244762	1.0689371	708
BLNK	NM_013314	-0.2343348	21.41062	-1.2767035	0.2060566	0.9999368	-4.8646794	0.8500768	709
CCR5	NM_000579	0.0707883	21.70964	0.2606517	0.7951501	0.9999368	-5.5595699	1.0502904	710
ADORA2A	NM_000675	0.0725422	21.19044	0.4303941	0.6682722	0.9999368	-5.4797116	1.0515680	711
IL12B	NM_002187	-0.0696848	18.48026	-0.2882509	0.7740329	0.9999368	-5.4558830	0.9528461	712
GATA3	NM_001002295	-0.1308038	18.56716	-0.5374914	0.5926857	0.9999368	-5.3812550	0.9133225	713
IL10RA	NM_001558	0.0638397	23.87399	0.3558009	0.7230929	0.9999368	-5.6624933	1.0452439	714
GZMA	NM_006144	0.2048503	22.59383	0.5899707	0.5571688	0.9999368	-5.4820321	1.1525668	715
MAPK3	NM_001040056	0.0866989	25.43817	0.4749320	0.6363597	0.9999368	-5.6316570	1.0619375	716
VEGFA	NM_001025366	0.2592892	26.74915	0.9011660	0.3706858	0.9999368	-5.3434053	1.1968889	717
HLA-DPB1	NM_002121	-0.0535146	26.46698	-0.2122886	0.8325179	0.9999368	-5.6849445	0.9635860	718
CD48	NM_001778	0.0311441	22.91196	0.1372835	0.8912130	0.9999368	-5.6567466	1.0218221	719
MIF	NM_002415	0.0710522	28.33957	0.5014725	0.6176609	0.9999368	-5.5465851	1.0504826	720
PRM1	NM_002761	-0.1476842	18.13361	-0.5267818	0.6000621	0.9999368	-5.3675523	0.9026983	721
SYT17	NM_016524	0.0161860	21.66605	0.0598330	0.9524644	0.9999368	-5.5605699	1.0112825	722
PDCD1LG2	NM_025239	-0.0287736	21.69906	-0.1245532	0.9012454	0.9999368	-5.5902221	0.9802532	723
IGJ	NM_144646	0.0289892	25.84334	0.0459262	0.9635095	0.9999368	-5.7200340	1.0202970	724
LRP1	NM_002332	-0.0860278	26.11918	-0.3355744	0.7382266	0.9999368	-5.6693116	0.9421131	725
CD274	NM_014143	0.2259724	21.20152	0.8984793	0.3721055	0.9999368	-5.2251992	1.1695653	726
CCR2	NM_001123041	-0.0335970	21.59090	-0.1202616	0.9046311	0.9999368	-5.5823490	0.9769814	727
ITGA2	NM_002203	0.0904180	22.04713	0.3556914	0.7231745	0.9999368	-5.5357753	1.0646786	728
PDGFC	NM_016205	-0.1352974	25.74767	-0.5319064	0.5965271	0.9999368	-5.6034596	0.9104821	729
FLT3	NM_004119	0.1292310	19.31462	0.5950472	0.5537901	0.9999368	-5.3692738	1.0937106	730
C8A	NM_000562	0.1657837	17.99272	0.6499673	0.5179066	0.9999368	-5.3059994	1.1217753	731
IRF5	NM_002200	0.0603812	23.18559	0.3743513	0.7093097	0.9999368	-5.6076719	1.0427412	732

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
ILF3	NM_001137673	-0.0687082	27.81336	-0.3012215	0.7641662	0.9999368	-5.6336703	0.9534914	733
TRAF6	NM_145803	-0.0065608	24.07696	-0.0405461	0.9677767	0.9999368	-5.7132474	0.9954627	734
HLA-DMA	NM_006120	-0.0767899	25.46651	-0.3850257	0.7014219	0.9999368	-5.6643730	0.9481650	735
LILRA5	NM_181879	0.1096006	20.51504	0.5209628	0.6040878	0.9999368	-5.4259490	1.0789295	736
LAG3	NM_002286	0.0254110	22.89018	0.0880892	0.9300651	0.9999368	-5.6560109	1.0177696	737
TAB1	NM_153497	-0.0983780	24.31948	-0.5305346	0.5974724	0.9999368	-5.5956589	0.9340826	738
ST6GAL1	NM_003032	0.0847245	25.92657	0.3209510	0.7492334	0.9999368	-5.6806765	1.0604852	739
HAMP	NM_021175	0.0002077	20.76749	0.0008037	0.9993611	0.9999368	-5.5466616	1.0001440	740
FLT3LG	NM_001459	-0.0487745	22.81397	-0.3243752	0.7466513	0.9999368	-5.6032254	0.9667572	741
SELPLG	NM_001206609	0.1309230	22.54464	0.8465108	0.4002418	0.9999368	-5.3232178	1.0949940	742
CCND3	NM_001760	-0.0897165	24.68308	-0.5243210	0.6017630	0.9999368	-5.6072531	0.9397074	743
SSX1	NM_005635	0.2506631	18.12270	0.8961235	0.3733532	0.9999368	-5.1466093	1.1897538	744
HLA-DPA1	NM_033554	-0.1666855	27.33257	-0.6508362	0.5173489	0.9999368	-5.4858419	0.8908871	745
TNFSF13B	NM_006573	0.1310036	23.28322	0.6549251	0.5147288	0.9999368	-5.5010918	1.0950552	746
DPP4	NM_001935	-0.1495494	21.72174	-0.3928147	0.6956871	0.9999368	-5.5270248	0.9015320	747
COLEC12	NM_130386	-0.1302400	22.88850	-0.4544148	0.6509798	0.9999368	-5.5512269	0.9136795	748
ATG12	NM_004707	0.0192201	20.91993	0.0830526	0.9340541	0.9999368	-5.5508168	1.0134115	749
CD2	NM_001767	0.1153489	20.63471	0.3991949	0.6910025	0.9999368	-5.4842407	1.0832370	750
ITGB2	NM_000211	0.1648492	24.91996	0.8008722	0.4259995	0.9999368	-5.4454463	1.1210489	751
ANXA1	NM_000700	0.1824282	28.26814	0.7807618	0.4376565	0.9999368	-5.3916940	1.1347923	752
UCHL1	NM_004181	0.1600316	24.85178	0.3909371	0.6971006	0.9999368	-5.6670140	1.1173116	753
SELL	NR_029467	0.2864024	21.88530	1.2929057	0.2004262	0.9999368	-4.8711189	1.2195952	754
LAIR2	NM_002288	0.0442258	22.44722	0.2596849	0.7958927	0.9999368	-5.5967249	1.0311297	755
CTSW	NM_001335	0.0525049	20.95841	0.2151152	0.8303224	0.9999368	-5.5365383	1.0370640	756
C9	NM_001737	-0.0023973	19.10940	-0.0120415	0.9904278	0.9999368	-5.5086045	0.9983397	757
IRGM	NM_001145805	0.1665482	18.60452	0.6558724	0.5141229	0.9999368	-5.3141296	1.1223699	758

Name	Accession_nv	logFC	AveExpr	t	P.Value	adj.P.Val	B	absFC	fgseaRank
CD74	NM_001025159	- 0.0824746	29.31135	- 0.3779446	0.7066509	0.9999368	- 5.5689653	0.9444363	759
CD3E	NM_000733	0.1574274	21.96095	0.4846023	0.6295183	0.9999368	- 5.5023984	1.1152966	760