

Table S4. Ratios of gene expression between patients with an acute rejection compared to patients without an acute rejection (negative control).
Positive ratio means higher expression in samples with acute rejection. Negative ratio means higher expression in samples without acute rejection.
*FDR p-value was obtained from the adjusted p-value of FDR correction by Benjamini-Hochberg method. FC fold change, FDRPV false discovery rate p-value, SE standard error.

Probe	FC (log2)	SE (log2)	Lower confidence limit (log2)	Upper confidence limit (log2)	FDRPV*
CCL5-mRNA	3.32	0.35	2.63	4.02	1.42e-05
AOAH-mRNA	3.14	0.35	2.46	3.82	1.42e-05
GBP5-mRNA	4.87	0.59	3.71	6.03	3.59e-05
CD4-mRNA	2.33	0.29	1.77	2.90	3.59e-05
CCR5-mRNA	2.63	0.34	1.97	3.29	4.18e-05
SP140-mRNA	3.05	0.39	2.28	3.81	4.18e-05
SH2D1A-mRNA	2.50	0.32	1.86	3.13	4.18e-05
LCP2-mRNA	2.34	0.30	1.75	2.94	4.18e-05
TIGIT-mRNA	3.63	0.48	2.68	4.58	5.4e-05
CXCL11-mRNA	6.17	0.84	4.53	7.81	6.01e-05
TBX21-mRNA	2.92	0.40	2.14	3.70	6.01e-05
CTSS-mRNA	3.17	0.48	2.31	4.02	6.7e-05
ITGAX-mRNA	3.41	0.48	2.47	4.35	7.35e-05
FAM26F-mRNA	3.53	0.50	2.55	4.51	7.35e-05
PSTPIP1-mRNA	2.41	0.34	1.75	3.08	7.35e-05
LTB-mRNA	2.5	0.25	1.80	3.19	7.86e-05
ST8SIA4-mRNA	2.34	0.34	1.68	3.00	8.85e-05
CD96-mRNA	2.58	0.38	1.84	3.32	0.000101
LAIR1-mRNA	2.40	0.36	1.70	3.10	0.000125
CD8A-mRNA	3.09	0.46	2.18	4.00	0.000126
CXCL10-mRNA	5.42	0.82	3.83	7.02	0.000126
CXCL9-mRNA	4.94	0.75	3.47	6.41	0.000133
GBP1-mRNA	3.19	0.49	2.24	4.14	0.000134
IDO1-mRNA	4.54	0.70	3.17	5.92	0.000156
TNF-mRNA	2.60	0.41	1.80	3.40	0.000173
CCL4-mRNA	3.70	0.58	2.56	4.83	0.000173
DUSP2-mRNA	2.56	0.40	1.77	3.35	0.000173
CD74-mRNA	1.84	0.29	1.27	2.41	0.000173
CD3D-mRNA	2.69	0.42	1.85	3.53	0.000198
PTPN7-mRNA	2.43	0.39	1.67	3.19	0.000198
IL21R-mRNA	2.19	0.35	1.50	2.88	0.00021
SLAMF8-mRNA	2.98	0.49	2.02	3.93	0.000241
CD86-mRNA	2.94	0.48	2.00	3.89	0.000249
CD84-mRNA	1.75	0.29	1.18	2.32	0.000262
FCGR3A-mRNA	3.50	0.58	2.37	4.64	0.000263
GIMAP5-mRNA	1.56	0.26	1.05	2.08	0.000295
TAP1-mRNA	2.21	0.37	1.48	2.94	0.00031
SLA-mRNA	2.35	0.42	1.53	3.17	0.000612
PSMB10-mRNA	1.72	0.31	1.12	2.33	0.000626
TNFSF8-mRNA	2.13	0.38	1.38	2.87	0.000626
PDCD1LG2-mRNA	2.26	0.49	1.47	3.06	0.00064
MYBL1-mRNA	1.77	0.32	1.14	2.40	0.00064
MS4A6A-mRNA	1.98	0.36	1.27	2.68	0.000658
FGD2-mRNA	2.32	0.43	1.48	3.16	0.000829
TNFRSF18-mRNA	3.16	0.59	2.00	4.32	0.000969
GZMB-mRNA	4.12	0.79	2.57	5.67	0.00118
PRDM1-mRNA	1.92	0.37	1.19	2.65	0.00128
IFI30-mRNA	2.18	0.43	1.34	3.01	0.0015
TNFAIP3-mRNA	2.20	0.43	1.35	3.04	0.0015
FCGR1B-mRNA	2.51	0.50	1.52	3.50	0.00183
AIM2-mRNA	2.31	0.47	1.40	3.22	0.00192
APOL2-mRNA	1.41	0.29	0.85	1.97	0.00193
BTLA-mRNA	2.76	0.56	1.66	3.85	0.00193
MS4A7-mRNA	1.54	0.31	0.93	2.15	0.00193
APOL1-mRNA	1.92	0.39	1.15	2.69	0.0021
SIRPG-mRNA	2.43	0.51	1.44	3.42	0.00252
LAG3-mRNA	3.03	0.64	1.78	4.28	0.00269
GNLY-mRNA	3.16	0.67	1.85	4.47	0.00282
CCR4-mRNA	2.23	0.48	1.29	3.17	0.00344
LCN2-mRNA	3.43	0.74	1.97	4.89	0.00357
CD163-mRNA	2.80	0.61	1.60	4.01	0.00389
CTLA4-mRNA	3.39	0.74	1.93	4.85	0.00396
PLA1A-mRNA	1.96	0.43	1.11	2.81	0.00403
IL18BP-mRNA	1.90	0.43	1.06	2.74	0.005
WARS-mRNA	2.01	0.46	1.11	2.92	0.00593
SLPI-mRNA	3.93	0.92	2.13	5.73	0.0069

EZH2-mRNA	1.05	0.25	0.57	1.54	0.00723
CD72-mRNA	2.24	0.53	1.20	3.29	0.00762
PSME2-mRNA	1.29	0.31	0.68	1.89	0.00834
MRC1-mRNA	1.45	0.36	0.75	2.16	0.0116
LAP3-mRNA	1.00	0.26	0.48	1.49	0.0174
CD274-mRNA	1.52	0.41	0.72	2.32	0.0219
ANKRD22-mRNA	1.88	0.51	0.87	2.88	0.0258
CD8B-mRNA	1.50	0.41	0.69	2.31	0.0275
BCL2A1-mRNA	1.89	0.53	0.85	2.93	0.0323
RARRES3-mRNA	1.45	0.41	0.64	2.26	0.035
ADAMDEC1-mRNA	2.23	0.64	0.98	3.49	0.0365
HAVCR1-mRNA	1.44	0.43	0.60	2.28	0.0463
EEF1A1-mRNA	-0.49	0.15	-0.77	-0.20	0.0469
LTF-mRNA	2.22	0.68	0.89	3.55	0.0568
CCR7-mRNA	1.31	0.41	0.52	2.11	0.0625
COL3A1-mRNA	-2.58	0.81	-4.16	-1.00	0.0651
MS4A4A-mRNA	1.48	0.47	0.56	2.41	0.0717
IFNG-mRNA	3.36	1.06	1.28	5.45	0.0717
IL1RL1-mRNA	1.75	0.57	0.63	2.87	0.0858
RNF149-mRNA	0.73	0.25	0.24	1.22	0.113
CXCR6-mRNA	1.49	0.52	0.47	2.51	0.128
COL5A1-mRNA	-2.01	0.70	-3.38	-0.63	0.128
ITGB6-mRNA	1.44	0.51	0.43	2.44	0.142
GEMIN7-mRNA	0.36	0.13	0.11	0.61	0.142
PHEX-mRNA	2.03	0.74	0.58	3.47	0.157
BCL2-mRNA	0.45	0.17	0.13	0.77	0.168
RARRES1-mRNA	1.23	0.46	0.32	2.13	0.189
CCL21-mRNA	1.33	0.50	0.34	2.32	0.192
TGFB1-mRNA	0.723	0.28	0.18	1.27	0.206
THBD-mRNA	0.755	0.30	0.17	1.34	0.244
SOD2-mRNA	1.13	0.46	0.23	2.03	0.28
NFATC1-mRNA	0.56	0.23	0.10	1.02	0.308
EPO-mRNA	-1.55	0.64	-2.81	-0.29	0.308
PLAT-mRNA	0.92	0.39	0.15	1.68	0.33
MET-mRNA	0.48	0.20	0.08	0.87	0.33
NFKBIA-mRNA	0.65	0.28	0.10	1.20	0.348
COL1A1-mRNA	-2.86	1.25	-5.31	-0.41	0.373
SLC22A2-mRNA	-0.95	0.43	-1.78	-0.12	0.4
PALMD-mRNA	-0.73	0.32	-1.36	-0.09	0.4
SH2D1B-mRNA	1.89	0.89	0.14	3.64	0.519
PDCD1-mRNA	1.27	0.61	0.08	2.47	0.525
EDA-mRNA	-0.27	0.13	-0.53	-0.01	0.574
CD28-mRNA	1.06	0.52	0.04	2.07	0.575
CITED4-mRNA	0.29	0.14	0.01	0.576	0.578
ASB15-mRNA	-1.17	0.58	-2.30	-0.04	0.579
ATXN3-mRNA	0.17	0.09	-0.0003	0.34	0.657
ST5-mRNA	-0.42	0.22	-0.86	0.02	0.779
GATA3-mRNA	0.44	0.24	-0.02	0.91	0.779
CAV1-mRNA	-0.86	0.47	-1.79	0.06	0.821
MYB-mRNA	1.97	1.09	-0.17	4.10	0.854
LGALS3-mRNA	0.26	0.15	-0.03	0.55	0.925
KLRF1-mRNA	2.37	1.35	-0.28	5.03	0.925
COL4A1-mRNA	0.70	0.41	-0.10	1.50	0.961
NFKBIZ-mRNA	0.62	0.37	-0.09	1.34	0.984
IL10-mRNA	1.49	0.87	-0.22	3.20	0.984
PECAM1-mRNA	0.38	0.23	-0.07	0.83	1
HAVCR2-mRNA	0.48	0.29	-0.09	1.04	1
SHROOM3-mRNA	0.20	0.12	-0.04	0.44	1
KLF4-mRNA	0.55	0.33	-0.10	1.19	1
OSMR-mRNA	0.51	0.31	-0.10	1.13	1
CX3CR1-mRNA	0.65	0.41	-0.15	1.44	1
BCL6-mRNA	0.61	0.40	-0.17	1.40	1
CD34-mRNA	-0.44	0.29	-1.01	0.13	1
COL4A3-mRNA	0.27	0.19	-0.10	0.64	1
FN1-mRNA	-1.04	0.74	-2.49	0.40	1
TMEM178A-mRNA	-0.43	0.32	-1.07	0.20	1
COL4A5-mRNA	-0.33	0.25	-0.82	0.15	1
IGHG1-mRNA	1.32	0.99	-0.62	3.26	1
ICOS-mRNA	1.63	1.25	-0.81	4.08	1
CDH13-mRNA	-0.52	0.40	-1.31	0.27	1
MIF-mRNA	-0.24	0.19	-0.61	0.13	1

IGHA1-mRNA	1.18	0.94	-0.67	3.03	1
SELE-mRNA	0.53	0.43	-0.32	1.37	1
MS4A1-mRNA	0.26	0.22	-0.16	0.69	1
NOS2-mRNA	0.44	0.37	-0.28	1.15	1
IGHM-mRNA	0.84	0.72	-0.56	2.25	1
COL4A4-mRNA	0.19	0.17	-0.13	0.52	1
IGHG2-mRNA	1.56	1.35	-1.07	4.2	1
RPS6-mRNA	-0.16	0.14	-0.44	0.12	1
TRIB1-mRNA	0.28	0.25	-0.21	0.78	1
VMP1-mRNA	0.09	0.08	-0.07	0.24	1
EHD3-mRNA	-0.37	0.35	-1.06	0.32	1
SLC4A1-mRNA	-0.40	0.39	-1.17	0.37	1
IGHG3-mRNA	0.75	0.73	-0.68	2.19	1
RPS6KB1-mRNA	0.14	0.14	-0.13	0.41	1
LTA-mRNA	2.34	2.37	-2.31	6.98	1
EOMES-mRNA	2.1	2.18	-2.17	6.37	1
ROBO4-mRNA	0.21	0.22	-0.22	0.64	1
TRAF4-mRNA	-0.08	0.09	-0.26	0.09	1
TEK-mRNA	0.21	0.24	-0.26	0.68	1
IGLC1-mRNA	0.82	0.94	-1.01	2.66	1
IGKC-mRNA	0.79	0.93	-1.02	2.60	1
PDPN-mRNA	-0.58	0.70	-1.94	0.77	1
RXRA-mRNA	-0.19	0.22	-0.62	0.25	1
NPHS2-mRNA	0.40	0.48	-0.55	1.35	1
NNMT-mRNA	0.44	0.54	-0.62	1.50	1
VEGFA-mRNA	0.42	0.53	-0.61	1.45	1
KLHL13-mRNA	-0.13	0.17	-0.47	0.20	1
IL21-mRNA	0.64	0.82	-0.96	2.24	1
RHOJ-mRNA	-0.28	0.33	-0.90	0.39	1
FJX1-mRNA	-0.21	0.28	-0.76	0.34	1
NPHS1-mRNA	-0.39	0.52	-1.40	0.62	1
MEGF11-mRNA	0.8	1.08	-1.32	2.92	1
SOX7-mRNA	0.14	0.21	-0.26	0.54	1
CD244-mRNA	1.24	1.87	-2.43	4.90	1
CHCHD10-mRNA	-0.14	0.22	-0.57	0.29	1
SERINC5-mRNA	0.10	0.17	-0.23	0.43	1
BKV-mRNA	-0.85	1.62	-4.02	2.32	1
LTBR-mRNA	-0.08	0.16	-0.39	0.23	1
CPA3-mRNA	0.27	0.53	-0.77	1.31	1
SPRY4-mRNA	0.10	0.21	-0.32	0.51	1
CDKN2A-mRNA	-0.49	1.13	-2.70	1.73	1
IGHG4-mRNA	0.41	0.99	-1.53	2.36	1
VWF-mRNA	-0.20	0.53	-1.23	0.84	1
RAB40C-mRNA	0.05	0.16	-0.25	0.36	1
SLC25A15-mRNA	0.11	0.45	-0.77	0.99	1
VCAN-mRNA	-0.17	0.69	-1.52	1.19	1
CD68-mRNA	-0.08	0.35	-0.77	0.61	1
CDH5-mRNA	-0.06	0.27	-0.59	0.47	1
FGFBP2-mRNA	0.28	1.32	-2.31	2.87	1
B3GAT1-mRNA	0.32	1.67	-2.96	3.59	1
FOXP3-mRNA	0.18	1.06	-1.90	2.26	1
FCER1A-mRNA	0.13	0.77	-1.37	1.63	1
ACKR1-mRNA	0.06	0.57	-1.05	1.17	1
SLC19A3-mRNA	-0.03	0.37	-0.75	0.69	1
TGIF1-mRNA	0.002	0.20	-0.38	0.39	1
IKZF2-mRNA	0.002	0.29	-0.58	0.58	1