

Table S1. P-values of the test for association of gene expressions with imaging and differential expressions between tumor and normal tissue samples in the KIRC study.

Gene	P-values		Gene	P-values	
	MFLM_FPC	Differential Expression		MFLM_FPC	Differential Expression
HELZ	6.62E-16	8.65E-08	ZNF81	9.95E-08	NA
MARCH9	2.12E-15	NA	GAB2	1.04E-07	9.16E-06
MSH5.SAPCD1	8.98E-13	7.13E-12	MMP24.AS1	1.29E-07	6.58E-01
SLC2A12	2.52E-12	<1.0 E-27	LOC647859	1.43E-07	3.00E-02
BRWD1	1.26E-11	9.17E-08	C2orf68	1.49E-07	3.27E-06
RFX7	5.29E-11	1.48E-01	SDR39U1	1.57E-07	6.66E-16
C22orf39	6.55E-11	2.52E-11	ZRANB3	1.66E-07	NA
NSD1	7.06E-11	4.44E-16	PSMC4	1.71E-07	5.11E-11
RTF1	1.82E-10	<1.0 E-27	FLJ12825	1.74E-07	NA
MBD5	3.00E-10	3.47E-13	ARHGEF11	2.26E-07	6.50E-02
ZSCAN16.AS1	4.16E-10	NA	LOC100289019	2.61E-07	9.86E-02
SESN1	4.84E-10	4.22E-02	SUFU	2.79E-07	4.45E-07
ITGA9	5.12E-10	4.13E-08	ZNF555	3.75E-07	NA
PPM1K	5.60E-10	1.11E-16	KHNYN	3.85E-07	2.44E-01
USP42	1.39E-09	NA	ANKRD11	4.80E-07	7.49E-06
FAM47E.STBD1	1.77E-09	1.54E-02	BOLA2B	4.82E-07	4.65E-06
ZNF710	2.05E-09	NA	BOLA2	4.82E-07	6.96E-06
TECPR2	3.59E-09	2.38E-11	SAPCD1	4.97E-07	6.51E-09
RASSF8.AS1	3.88E-09	7.97E-01	SLC9A4	6.26E-07	NA
CCDC93	4.04E-09	4.13E-03	CRYBG3	6.30E-07	1.58E-06
NAV2	4.90E-09	3.51E-01	SLC15A2	6.78E-07	8.05E-11
CYB5B	6.75E-09	2.25E-08	BRD4	7.77E-07	8.09E-04
ANKRD17	7.55E-09	8.11E-03	ATP6V1C2	7.80E-07	1.05E-07
CCDC181	7.98E-09	NA	SMAD2	9.23E-07	5.33E-05
SPHK2	1.08E-08	3.84E-07	ST3GAL6	1.19E-06	1.53E-08
KCNN3	1.15E-08	1.57E-04	ZMIZ1	1.26E-06	NA
ZFYVE16	1.16E-08	NA	USP34	1.36E-06	NA
CMTM1	1.23E-08	2.64E-03	RALGAPA2	1.38E-06	7.06E-13
LINC00875	1.69E-08	7.54E-04	FRMD4A	2.03E-06	0.00E+00
NOTCH1	1.81E-08	3.71E-02	PSMA5	2.12E-06	1.95E-03
BLZF1	1.87E-08	4.03E-12	RIPPLY1	2.18E-06	NA
CHD2	3.55E-08	2.57E-08	ERCC6	2.20E-06	0.00E+00
MTUS1	4.71E-08	9.48E-11	MINK1	2.29E-06	0.00E+00
REV3L	4.96E-08	2.12E-03	DIP2C	2.38E-06	1.32E-14
LRIG2	5.00E-08	1.25E-13	PHLDB2	2.51E-06	6.66E-16
DENND1C	5.83E-08	1.20E-02	TBC1D24	2.54E-06	8.88E-01
TMEM50B	6.77E-08	1.08E-05	APBA3	2.55E-06	5.83E-14
CELF1	7.92E-08	3.99E-10	DLC1	2.60E-06	2.20E-04
ZSCAN20	8.41E-08	NA	TRAK1	2.60E-06	5.01E-02
MINA	8.76E-08	< 1.0 E-27	NISCH	2.62E-06	1.03E-01
C5AR2	9.01E-08	<1.0 E-27	CPEB3	2.64E-06	5.64E-01
SSH2	9.68E-08	3.85E-01	UFD1L	2.94E-06	NA

NA: Test for differential expression was not conducted due to technique problems.