

Table S1: Immune related genes expressed only in IL-13R α 2 mRNA highly expressed GBM tumors (Group III)

Gene Symbol	Gene Name	Log2 Ratio
FMOD	fibromodulin	1.92
CXCL13	<i>chemokine (C-X-C motif) ligand 13</i>	1.61
MNDA	myeloid cell nuclear differentiation antigen	1.58
HLA-DRA	major histocompatibility complex, class II, DR alpha	1.52
TLR8	toll-like receptor 8	1.50
LY75	lymphocyte antigen 75	1.48
IL15	interleukin 15	1.48
IL18	interleukin 18 (interferon-gamma-inducing factor)	1.45
CCR5	chemokine (C-C motif) receptor 5 (gene/pseudogene)	1.43
FCGR3A	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)	1.41
PLEK	pleckstrin	1.38
NOD2	nucleotide-binding oligomerization domain containing 2	1.38
SLFN11	schlafen family member 11	1.37
CCL2	chemokine (C-C motif) ligand 2	1.37
ITGBL1	integrin, beta-like 1 (with EGF-like repeat domains)	1.36
OSM	oncostatin M	1.36
WISP1	WNT1 inducible signaling pathway protein 1	1.35
TREM2	triggering receptor expressed on myeloid cells 2	1.35
BOC	Boc homolog (mouse)	1.33
SRGN	serglycin	1.33
HLA-DRB5	major histocompatibility complex, class II, DR beta 5	1.33
GJB6	gap junction protein, beta 6, 30kDa	1.33
HLA-DOA	major histocompatibility complex, class II, DO alpha	1.32
PARVG	parvin, gamma	1.31
FCER1G	Fc fragment of IgE, high affinity I, receptor for gamma polypeptide	1.27
MMRN1	multimerin 1	1.25
SIGLEC10	sialic acid binding Ig-like lectin 10	1.25
FYB	FYN binding protein	1.25
HOXB4	homeobox B4	1.24
PLA2G4A	phospholipase A2, group IVA	1.23
IL17B	interleukin 17B	1.23
TLR6	toll-like receptor 6	1.23
TLR5	toll-like receptor 5	1.23
CLEC7A	C-type lectin domain family 7, member A	1.22
AIF1	allograft inflammatory factor 1	1.21
HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1	1.21

PRPH2	peripherin 2 (retinal degeneration, slow)	1.21
FOXJ1	forkhead box J1	1.20
TSPO	translocator protein (18kDa)	1.20
GZMK	granzyme K (granzyme 3; tryptase II)	1.20
THBD	thrombomodulin	1.19
SULF1	sulfatase 1	1.18
ELMOD2	ELMO/CED-12 domain containing 2	1.18
MFAP4	microfibrillar-associated protein 4	1.17
IFI6	interferon, alpha-inducible protein 6	1.17
AIM2	aminoacyl tRNA synthetase complex-interacting multifunctional protein 2	1.17
DDIT3	DNA-damage-inducible transcript 3	1.17
BTG3	B-cell translocation gene 3	1.16
TBX21	T-box 21	1.15
SERPING1	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	1.15
SYK	spleen tyrosine kinase	1.14
HLA-DQB1	major histocompatibility complex, class II, DQ beta 1	1.13
VDR	vitamin D (1,25- dihydroxyvitamin D3) receptor	1.13
CSF3R	colony stimulating factor 3 receptor (granulocyte)	1.13
C1S	complement component 1, s subcomponent	1.13
CD1D	CD1d molecule	1.12
TGFBR1	transforming growth factor, beta receptor 1	1.12
PSMB10	proteasome (prosome, macropain) subunit, beta type, 10	1.12
SPI1	spleen focus forming virus (SFFV) proviral integration oncogene spi1	1.11
SIPA1	signal-induced proliferation-associated 1	1.11
CIITA	class II, major histocompatibility complex, transactivator	1.11
LILRB1	leukocyte immunoglobulin-like receptor, subfamily B 1	1.11
HES1	hairy and enhancer of split 1, (Drosophila)	1.11
TNFRSF14	tumor necrosis factor receptor superfamily, member 14	1.11
TIPARP	TCDD-inducible poly(ADP-ribose) polymerase	1.10
LCP2	lymphocyte cytosolic protein 2	1.10
FXYD5	FXYD domain containing ion transport regulator 5	1.10
FPR1	formyl peptide receptor 1	1.10
CFD	complement factor D (adipsin)	1.10
ATF5	activating transcription factor 5	1.10
PSMB8	proteasome (prosome, macropain) subunit, beta type, 8	1.10
ANXA4	annexin A14	1.09
IFT20	intraflagellar transport 20 homolog (Chlamydomonas)	1.09
LCP1	lymphocyte cytosolic protein 1 (L-plastin)	1.09
CFH	complement factor H	1.09
IGSF5	immunoglobulin superfamily, member 5	1.08
SELL	selectin L	1.08

OXTR	oxytocin receptor	1.08
IL33	interleukin 33	1.08
CD226	CD226 molecule	1.08
F3	coagulation factor III (thromboplastin, tissue factor)	1.07
CFLAR	CASP8 and FADD-like apoptosis regulator	1.07
F11R	F11 receptor	1.07
SLFN13	schlafen family member 13	1.07
CD84	CD84 molecule	1.07
TMEM173	transmembrane protein 173	1.06
HMHA1	histocompatibility (minor) HA-1	1.06
HSPB1	heat shock 27kDa protein 1	1.05
TNFAIP3	tumor necrosis factor, alpha-induced protein 3	1.05
A2M	alpha-2-macroglobulin	1.05
CD37	CD37 molecule	1.04
LAMP2	lysosomal-associated membrane protein 2	1.04
NRP2	neuropilin 2	1.03
IL7R	interleukin 7 receptor	1.03
AMICA1	adhesion molecule, interacts with CXADR antigen 1	1.03
NRP1	neuropilin 1	1.03
BCAP29	B-cell receptor-associated protein 29	1.03
IFI35	interferon-induced protein 35	1.02
FLI1	Friend leukemia virus integration 1	1.02
MAGED1	melanoma antigen family D, 1	1.02
IFT52	intraflagellar transport 52 homolog (Chlamydomonas)	1.02
CD276	CD276 molecule	1.02
TBXAS1	thromboxane A synthase 1 (platelet)	1.02
RRAD	Ras-related associated with diabetes	1.01
CXCR4	chemokine (C-X-C motif) receptor 4	1.01
CD86	CD86 molecule	1.01
EMILIN1	elastin microfibril interfacier 1	1.00
FCER1A	Fc fragment of IgE, high affinity I, receptor for alpha polypeptide	1.00
IL20RB	interleukin 20 receptor beta	1.00
IRF7	interferon regulatory factor 7	0.99
TNFRSF1B	tumor necrosis factor receptor superfamily, member 1B	0.99
PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific)	0.98
IL4	interleukin 4	0.98
CFB	complement factor B	0.98
TBX5	T-box 5	0.98
FCN3	ficolin (collagen/fibrinogen domain containing) 3	0.97
PRAM1	PML-RARA regulated adaptor molecule 1	0.97
IL18RAP	interleukin 18 receptor accessory protein	0.97
CPA3	carboxypeptidase A3 (mast cell)	0.96

SHFM1	split hand/foot malformation (ectrodactyly) type 1	0.96
DPP4	dipeptidyl-peptidase 4	0.96
SERPINI2	serpin peptidase inhibitor, clade I (pancpin), member 2	0.96
RHCE	Rh blood group, CcEe antigens	0.96
KCNJ8	potassium inwardly-rectifying channel, subfamily J, member 8	0.96
COL9A1	collagen, type IX, alpha 1	0.95
CD164	CD164 molecule, sialomucin	0.95
DUSP6	dual specificity phosphatase 6	0.95
IFNAR1	interferon (alpha, beta and omega) receptor 1	0.95
IRAK3	interleukin-1 receptor-associated kinase 3	0.95
LST1	leukocyte specific transcript 1	0.95
ICAM1	intercellular adhesion molecule 1	0.95

*Log2 ratios are the mean values of immune related genes expressed in IL-13R α 2 highly expressed tumor group (Group III).