

Table S1 - Literature-based melanoma metastasis network

Melanoma Genes	Metastasis Genes
ABL1	ACAN
ADAM19	ADAM19
AKT1	AGAP2
AKT2	AKT1
AKT3	AKT2
AKT1S1	AKT3
ANGPT1	AKT1S1
ACAN	ANGPT1
AURKB	AREG
BCL2	B4GALT5
BCR	BTC
BIRC5	CD14
BIRC7	CDH1
BRAF	CDKN2A
CASP1	CEACAM1
CD44	CSF1
CDC2	COL4A6
CDC2L6	CXCL12
CDH1	DPP4
CDK2	EGFR
CDK3	EPHA2
CDK4	EZR
CDK5	F2R
CDK6	FBXW7
CDK7	GDF15
CDK8	GH1
CDK9	GZMB
CDK10	HBEGF
CDKN2A	HGF
CHEK1	HIF1A
CHUK	HPSE
CLK2	IGFR
CLK4	IGF1
CRKRS	IGF2R
CSF1	ITGA2
CSF2RA	ITGA5
CSF2RB	ITGA6
CTLA4	ITGB1
COL4A6	ITGB3
CXCL12	ITGB4
D830050J10RIK	ITGB5
DPP4	MAP2K1
EGFR	MAP2K2
EIF2AK2	MAP2K5
EPHA2	MCAM
EPHA3	MMP2
EZR	MMP3
FBXW7	MST1R
FLT1	NFAT5
FLT3	NEDD9
FLT4	NOTCH1
FNTA	NUAK2
FNTB	PLAU

FYN	PLAUR
GNRH1	PAR1
GOLPH3	PTK2
GZMB	RAF
HDAC1	RAP1A
HDAC2	SPP1
HDAC3	TGFA
HDAC4	TGFBR2
HDAC5	VHL
HDAC6	VTN
HDAC7	
HDAC8	
HDAC10	
HDAC11	
HDAC9 (includes EG:9734)	
HIF1A	
HIPK2	
HLA-E	
HMGCR	
HPSE	
HRAS	
HPSE	
HSP90AA1	
HSP90AA2	
HSP90AB1	
HSP90B1	
IFNAR1	
IFNAR2	
IGF1	
IGF2R	
IL6	
IL10	
IL24	
IL2RA	
IL2RB	
IL2RG	
ILK	
ITGA5	
ITGA6	
ITGA2	
ITGA6	
ITGB1	
ITGB3	
ITGB4	
ITGB5	
KDR	
KIDINS220	
KIT	
LCK	
LIMK1	
LKB1	
MAP2K1	
MAP2K2	
MC1R	
MITF	
MCAM	

MGMT
MAPK14
MMP2
MMP3
MET
MTOR
NEDD9
NEK6
NEK7
NF1
NFAT5
NR3C1
NME1
NOTCH1
NRAS
OBSCN (includes EG:84033)
PAR1
PLAU
PLAUR
PAX3
PDGFRA
PDGFRB
PLK1
PSMB5
PTK2
PTEN
PTPN11
RABGGTB
RAS
RAF
RAP1A
RASAL1
RET
RNF5 (includes EG:6048)
RPS6KC1
RHOA
RRM2
RUNX3
RRM2B
SGK3
SHC1
SILV
SLC1A1
SLC1A2
SLC1A3
SLC1A4
SLC1A6
SLC1A7
SLIT2
SOCS1
SPP1
SRC
SOX10
TAF4
TAOK1
TCN1

TECTA
TGFB2
TLR7
TLR9
TOP1
TOP2B
TP53
TRPC2
TRPM1
TUBA4
TUBA8
TUBA1A
TUBA1C
TUBA3C
TUBA4A
TUBB1
TYRO3
VTN
VEGFA
WNT5A
WNK1
XPC
YES1