

How to use this page: Each translocation has 2 partner genes. If you know the 5' partner, look in the alphabetically-sorted left columns, if you know the 3' partner look in the right columns. Each gene may have several intron breakpoints; most are covered in our assay. Contact the Molecular Lab for specifics. Remember, this page covers genes mostly in carcinomas, but some sarcomas. Check the Sarcoma panel for other targets.

MDL Custom Fusion Panel—V1, August 2020

Sorted by 5' gene

5' GENE	3' GENE
ACTB	GLI1
AHRR	NCOA2
ARID1A	PRKD1
ASPSCR1	TFE3
ATP2B4	ERBB4
BCOR	CCNB3
BCOR	MAML3
BRD3	NUTM1
BRD4	c15orf55
c11orf95	MKL2
CDH11	USP6
CDKN2D	WDFY2
CHCHD7	PLAG1
CIC	DUX4
CIC	FOXO4
CLTC	TFE3
COL1A1	PDGFB
COL1A1	PLAG1
COL1A1	USP6
COL6A3	CSF1
CREB3L2	PPARG
CRTC1	MAML2
CRTC3	MAML2
CTNNB1	PLAG1
DDX3X	PRKD1
DNAJB1	PRKACA
EIF3E	RSPO2
EP400	PHF1
EPC1	PHF1
ESR1	c6orf97
ESRP1	RAF1
FGFR1	TACC1
FGFR2	BICC1
FGFR3	BAIAP2L1
FGFR3	TACC3
HAS2	PLAG1
HEY1	NCOA2
HMGA2	CCNB1IP1
HMGA2	COG5
HMGA2	COX6C
HMGA2	LPP
HMGA2	RAD51B
HMG2P46	ETV1
HNRNPA2B1	ETV1
HTN3	MSANTD3
IRF2BP2	CDX1
JAZF1	PHF1
JAZF1	SUZ12
LIFR	PLAG1
MALATI	GLI1
MAML2	CRTC1

MBTD1	cXorf67
MEAF6	PHF1
MYH9	USP6
NAB2	PDGFRB
NAB2	STAT6
NCOA2	AHRR
NONO	TFE3
NUPI07	LRG5
OMD	USP6
PAPD7	RAF1
PRCC	TFE3
PTPRK	RSPO3
RAD51B	HMGA2
RAF1	PHC3
RANBP2	ALK
RREB1	MKL2
SDC4	NRG1
SFPQ	TFE3
SIK2	JAK2
SLC44A1	PRKCA
SRF-	RELA
SRGAP3	RAF1
TCF3	PBX1
TFE3	ASPSCR1
TFE3	PRCC
TFG	NR4A3
TRAP150	USP6
WWTR1	CAMTA1
YAP1	TFE3
ZC3H7B	BCOR
ZNF9	USP6

Sorted by 3' gene

5' GENE	3' GENE
NCOA2	AHRR
RANBP2	ALK
TFE3	ASPSCR1
FGFR3	BAIAP2L1
ZC3H7B	BCOR
FGFR2	BICC1
BRD4	c15orf55
ESR1	c6orf97
WWTR1	CAMTA1
HMGA2	CCNB1IP1
BCOR	CCNB3
IRF2BP2	CDX1
HMGA2	COG5
HMGA2	COX6C
MAML2	CRTC1
COL6A3	CSF1
MBTD1	cXorf67
CIC	DUX4
ATP2B4	ERBB4
HMG2P46	ETV1
HNRNPA2B1	ETV1
CIC	FOXO4
ACTB	GLI1
MALATI	GLI1
RAD51B	HMGA2
SIK2	JAK2
HMGA2	LPP
NUPI07	LRG5
CRTC1	MAML2
CRTC3	MAML2
BCOR	MAML3
c11orf95	MKL2
RREB1	MKL2
HTN3	MSANTD3
AHRR	NCOA2
HEY1	NCOA2
TFG	NR4A3
SDC4	NRG1
BRD3	NUTM1
TCF3	PBX1
COL1A1	PDGFB
NAB2	PDGFRB
RAF1	PHC3
EP400	PHF1
EPC1	PHF1
JAZF1	PHF1
MEAF6	PHF1
CHCHD7	PLAG1
COL1A1	PLAG1
CTNNB1	PLAG1
HAS2	PLAG1

LIFR	PLAG1
CREB3L2	PPARG
TFE3	PRCC
DNAJB1	PRKACA
SLC44A1	PRKACA
ARID1A	PRKD1
DDX3X	PRKD1
HMGA2	RAD51B
ESRP1	RAF1
PAPD7	RAF1
SRGAP3	RAF1
SRF-	RELA
EIF3E	RSPO2
PTPRK	RSPO3
NAB2	STAT6
JAZF1	SUZ12
FGFR1	TACC1
FGFR3	TACC3
ASPSCR1	TFE3
CLTC	TFE3
NONO	TFE3
PRCC	TFE3
SFPQ	TFE3
YAP1	TFE3
CDH11	USP6
COL1A1	USP6
MYH9	USP6
OMD	USP6
TRAP150	USP6
ZNF9	USP6
CDKN2D	WDFY2