

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.

MDL Fusion Heme panel—V1, August 2020

Sorted by **5' gene**

5' GENE	3' GENE
ABL1	BCR
BCOR	RARA
BCR	ABL1
CAPRIN1	PDGFRB
CBFA2T3	GLIS2
CBFB	MYH11
CCDC6	PDGFRB
CCDC88C	PDGFRB
CDK6	KMT2A
CHIC	ETV6
CREBBP	KAT6B
DDX10	NUP98
DEK	NUP214
DHH	RHEBL1
EPS15	KMT2A
ERC1	PDGFRB
ETV6	ABL1
ETV6	ABL2
ETV6	CHIC2
ETV6	JAK2
ETV6	MECOM
ETV6	MN1
ETV6	NTRK3
ETV6	PDGFRA
ETV6	PDGFRB
ETV6	PRDM16
ETV6	RUNX1
FIP1L1	RARA
FUS	ERG
GIT2	PDGFRB
GOLGA4	PDGFRB
HIP1	PDGFRB
JAK2	PAX5
KAT6B	CREBBP
KMT2A	AFF1
KMT2A	AFF4
KMT2A	CASC5
KMT2A	CREBBP
KMT2A	ELL
KMT2A	EPS15
KMT2A	GAS7
KMT2A	MLLT1
KMT2A	MLLT10
KMT2A	MLLT11
KMT2A	MLLT3
KMT2A	MLLT4
KMT2A	SEPT5
KMT2A	SEPT6
KMT2A	SEPT9
MN1	ETV6
MSI2	HOXA9
NDE1	PDGFRB
NOP2	TCF3

NPM1	MLF1
NPM1	RARA
NSD1	ANKRD28
NUMA1	RARA
NUP214	ABL1
NUP98	ADD3
NUP98	CCDC28A
NUP98	HOXA11
NUP98	HOXA13
NUP98	HOXA9
NUP98	HOXC11
NUP98	HOXD11
NUP98	IQCG
NUP98	KDM5A
NUP98	MLL
NUP98	NSD1
NUP98	PRRX1
NUP98	PRRX2
NUP98	PSIP1
NUP98	RAP1GDS1
NUP98	SETBP1
NUP98	TOP1
NUP98	WHSC1L1
NYP98	HHEX
P2RY8	CRLF2
PCM1	JAK2
PDE4DIP	PDGFRB
PML	RARA
PRKAR1A	RARA
RABEP1	PDGFRB
RANBP2	ALK
RBM15	MKL1
RBM6	CSF1R
RPN1	MECOM
RUNX1	ETV6
RUNX1	RUNX1T1
SEC31A	JAK2
SET	NUP214
SPECC1	PDGFRB
SSBP2	JAK2
STIL	TAL1
TCF3	HLF
TCF3	PBX1
TCF3	TFPT
TCR3	ZNF384
TP53BP1	PDGFRB
TPM3	PDGFRB
TRIP11	PDGFRB
WDR48	PDGFRB

Sorted by **3' gene**

5' GENE	3' GENE
BCR	ABL1
ETV6	ABL1
NUP214	ABL1
ETV6	ABL2
NUP98	ADD3
KMT2A	AFF1
KMT2A	AFF4
RANBP2	ALK
NSD1	ANKRD28
ABL1	BCR
KMT2A	CASC5
NUP98	CCDC28A
ETV6	CHIC2
KAT6B	CREBBP
KMT2A	CREBBP
P2RY8	CRLF2
RBM6	CSF1R
KMT2A	ELL
KMT2A	EPS15
FUS	ERG
CHIC	ETV6
MN1	ETV6
RUNX1	ETV6
KMT2A	GAS7
CBFA2T3	GLIS2
NYP98	HHEX
TCF3	HLF
NUP98	HOXA11
NUP98	HOXA13
MSI2	HOXA9
NUP98	HOXA9
NUP98	HOXC11
NUP98	HOXD11
NUP98	IQCG
ETV6	JAK2
PCM1	JAK2
SEC31A	JAK2
SSBP2	JAK2
CREBBP	KAT6B
NUP98	KDM5A
CDK6	KMT2A
EPS15	KMT2A
ETV6	MECOM
RPN1	MECOM
RBM15	MKL1
NPM1	MLF1
NUP98	MLL
KMT2A	MLLT1
KMT2A	MLLT10
KMT2A	MLLT11
KMT2A	MLLT3
KMT2A	MLLT4
ETV6	MN1

CBFB	MYH11
NUP98	NSD1
ETV6	NTRK3
DEK	NUP214
SET	NUP214
DDX10	NUP98
JAK2	PAX5
TCF3	PBX1
ETV6	PDGFRA
CAPRIN1	PDGFRB
CCDC6	PDGFRB
CCDC88C	PDGFRB
ERC1	PDGFRB
ETV6	PDGFRB
GIT2	PDGFRB
GOLGA4	PDGFRB
HIP1	PDGFRB
NDE1	PDGFRB
PDE4DIP	PDGFRB
RABEP1	PDGFRB
SPECC1	PDGFRB
TP53BP1	PDGFRB
TPM3	PDGFRB
TRIP11	PDGFRB
WDR48	PDGFRB
ETV6	PRDM16
NUP98	PRRX1
NUP98	PRRX2
NUP98	PSIP1
NUP98	RAP1GDS1
BCOR	RARA
FIP1L1	RARA
NPM1	RARA
NUMA1	RARA
PML	RARA
PRKAR1A	RARA
DHH	RHEBL1
ETV6	RUNX1
RUNX1	RUNX1T1
KMT2A	SEPT5
KMT2A	SEPT6
KMT2A	SEPT9
NUP98	SETBP1
STIL	TAL1
NOP2	TCF3
TCF3	TFPT
NUP98	TOP1
NUP98	WHSC1L1
TCR3	ZNF384