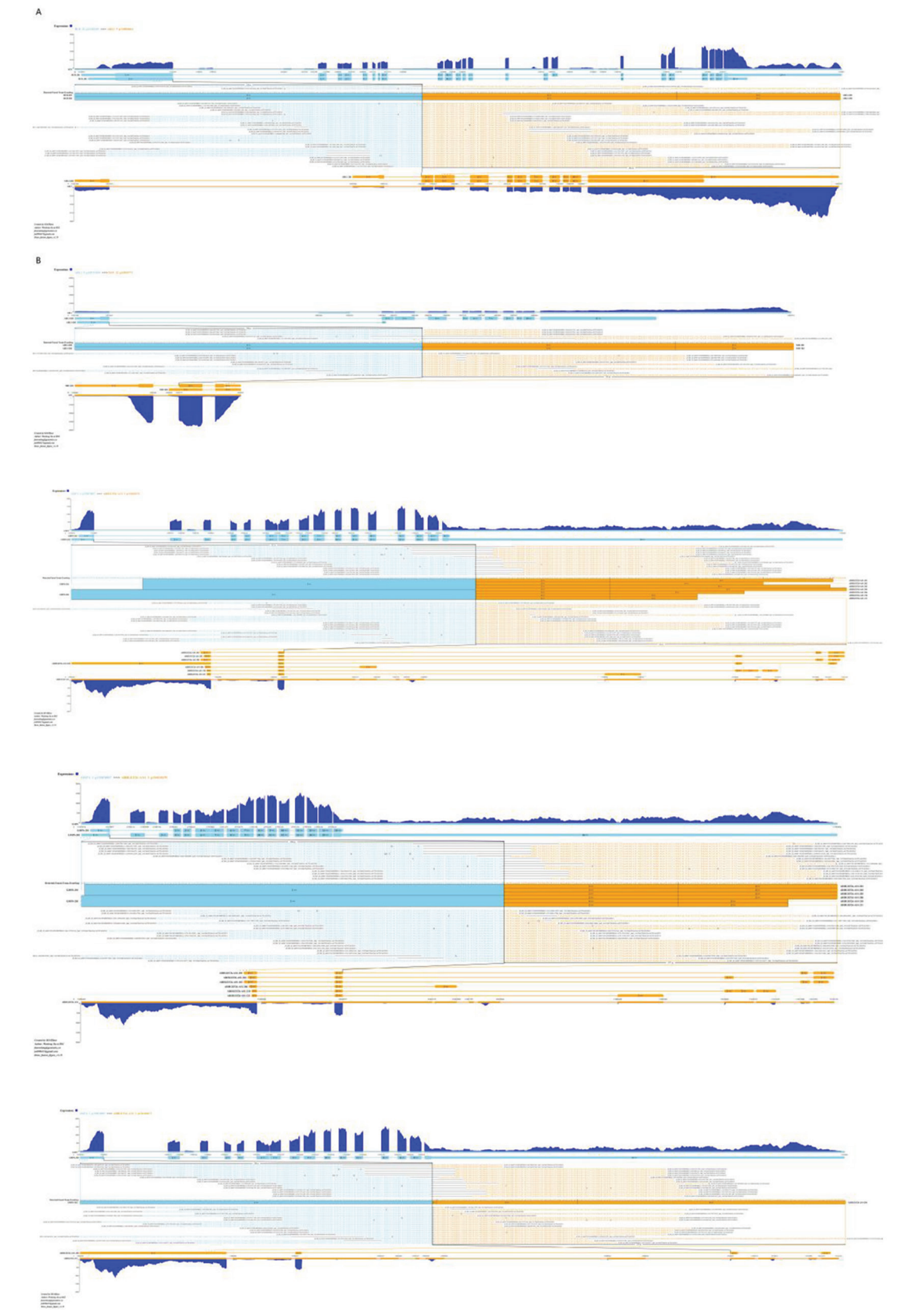


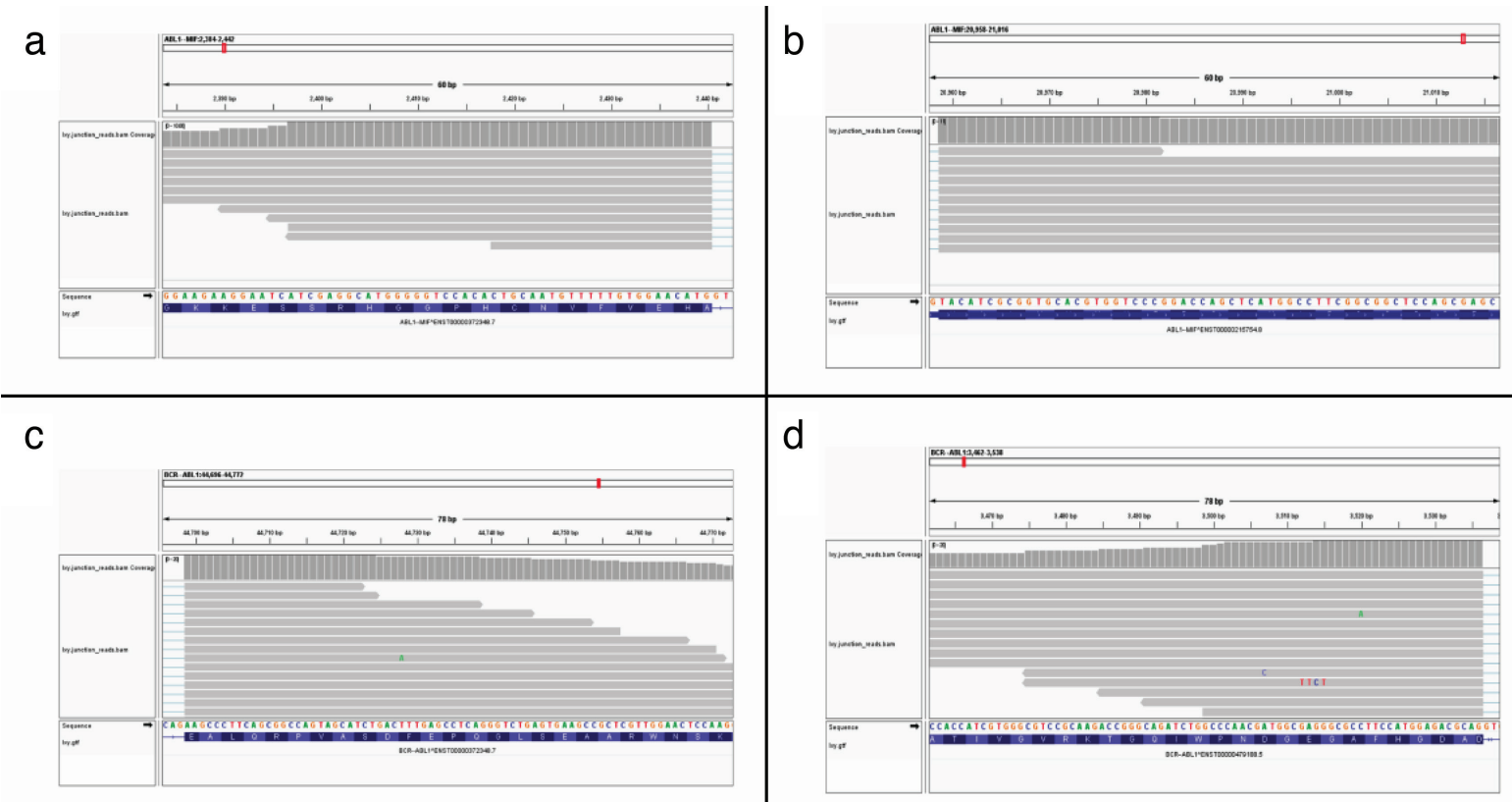
SUPPLEMENTARY TABLE 1. Hotspot regions or CDS of 56 AML-associated genes.

Gene	Detection region	Gene	Detection region	Gene	Detection region
ANKRD26	Exon1/5'UTR	FLT3	CDS	RELN	CDS
ASXL1	CDS	GATA1	CDS	RUNX1	CDS
ASXL2	CDS	GATA2	CDS	SETBP1	CDS
BCOR	CDS	IDH1	CDS	SETD2	CDS
BCORL1	CDS	IDH2	CDS	SF1	CDS
CASP8	Exon10	JAK1	CDS	SF3B1	CDS
CBL	CDS	JAK2	CDS	SMC1A	CDS
CCND1	CDS	JAK3	CDS	SMC3	CDS
CCND2	Exon4-5	KDM6A	CDS	SRP72	CDS
CCND3	CDS	KIT	CDS	SRSF2	CDS
CDC25C	Exon8	KMT2A	CDS	STAG2	CDS
CDKN1B	CDS	KRAS	CDS	TERT	CDS
CEBPA	CDS	NF1	CDS	TET2	CDS
CSF3R	CDS	NPM1	CDS	TP53	CDS
CUX1	CDS	NRAS	CDS	U2AF1	CDS
DDX41	CDS	PHF6	CDS	WT1	CDS
DNMT3A	CDS	PTEN	CDS	ZBTB7A	CDS
ETV6	CDS	PTPN11	CDS	ZRSR2	CDS
EZH2	CDS	RAD21	CDS		

UTR, untranslated region; CDS, coding sequence.



SUPPLEMENTARY FIG. 1-4. Fusion events detected by SOAPfuse software. S1 (a). *BCR::ABL1*; (b). *ABL1_MIF*; S2-S4. Three variants of *GMPS::ARHGEF26-AS1*.



SUPPLEMENTARY FIG. 5. Fusion events detected by Starfusion software. Screenshot from the IGV browser. (a) and (b). *ABL1::MIF* junction reads; (c) and (d). *BCR::ABL1* junction reads.