

**Table S3.** Copy number alterations identified across 266 MDS genomes.

<b>Sample_ID</b>	<b>Gene</b>	<b>Position</b>	<b>Event</b>
MDS028	U2AF1	chr21:44,513,065-44,527,688	Loss
MDS033	ASXL1	chr20:30,946,146-31,027,122	Loss
MDS040	IDH2	chr15:90,627,210-90,645,786	Gain
MDS043	IDH2	chr15:90,627,210-90,645,786	Gain
MDS043	SETBP1	chr18:42,260,137-42,648,475	Gain
MDS058	EZH2	chr7:148,504,463-148,581,441	Loss
MDS058	LAMB4	chr7:107,663,995-107,770,801	Loss
MDS059	RUNX1	chr21:36,160,097-36,421,595	Loss
MDS059	U2AF1	chr21:44,513,065-44,527,688	Loss
MDS060	RUNX1	chr21:36,160,097-36,421,595	Loss
MDS060	U2AF1	chr21:44,513,065-44,527,688	Loss
MDS086	TET2	chr4:106,067,031-106,200,960	Gain
MDS087	KRAS	chr12:25,357,722-25,403,865	Loss
MDS097	TET2	chr4:106,067,031-106,200,960	Gain
MDS101	KRAS	chr12:25,357,722-25,403,865	Loss
MDS101	DNMT1	chr19:10,244,019-10,305,811	Gain
MDS125	KRAS	chr12:25,357,722-25,403,865	Loss
MDS126	ASXL1	chr20:30,946,146-31,027,122	Gain
MDS126	TET2	chr4:106,067,031-106,200,960	Gain
MDS131	IDH2	chr15:90,627,210-90,645,786	Gain
MDS132	IDH2	chr15:90,627,210-90,645,786	Gain
MDS133	KRAS	chr12:25,357,722-25,403,865	Loss
MDS141	KRAS	chr12:25,357,722-25,403,865	Loss
MDS142	KRAS	chr12:25,357,722-25,403,865	Loss
MDS147	IDH2	chr15:90,627,210-90,645,786	Gain
MDS151	CBL	chr11:119,076,985-119,178,859	Gain
MDS151	KRAS	chr12:25,357,722-25,403,865	Loss
MDS156	IDH2	chr15:90,627,210-90,645,786	Gain
MDS158	ASXL1	chr20:30,946,146-31,027,122	Loss
MDS158	IDH2	chr15:90,627,210-90,645,786	Gain
MDS210B	ASXL1	chr20:30,946,146-31,027,122	Loss
MDS212B	ASXL1	chr20:30,946,146-31,027,122	Gain
MDS222B	TET2	chr4:106,067,031-106,200,960	Loss
MDS223B	TET2	chr4:106,067,031-106,200,960	Loss
MDS227B	ASXL1	chr20:30,946,146-31,027,122	Loss
MDS227B	KRAS	chr12:25,357,722-25,403,865	Gain
MDS231B	KRAS	chr12:25,357,722-25,403,865	Gain
MDS232B	TET2	chr4:106,067,031-106,200,960	Loss
MDS242B	ASXL1	chr20:30,946,146-31,027,122	Loss
MDS245B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS245B	RUNX1	chr21:36,160,097-36,421,595	Loss
MDS253B	ETV6	chr12:11,802,787-12,048,325	Loss
MDS254B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS254B	ASXL1	chr20:30,946,146-31,027,122	Gain

MDS254B	CBL	chr11:119,076,985-119,178,859	Gain
MDS254B	JAK2	chr9:4,985,085-5,128,183	Gain
MDS254B	KRAS	chr12:25,357,722-25,403,865	Gain
MDS254B	LAMB4	chr7:107,663,995-107,770,801	Loss
MDS254B	PRPF8	chr17:1,553,922-1,588,176	Loss
MDS254B	RUNX1	chr21:36,160,097-36,421,595	Gain
MDS254B	TET2	chr4:106,067,031-106,200,960	Gain
MDS254B	TP53	chr17:7,571,719-7,590,868	Loss
MDS258B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS264B	RUNX1	chr21:36,160,097-36,421,595	Gain
MDS264B	U2AF1	chr21:44,513,065-44,527,688	Gain
MDS279B	JAK2	chr9:4,985,085-5,128,183	Gain
MDS281B	IDH2	chr15:90,627,210-90,645,786	Gain
MDS282B	NRAS	chr1:115,247,084-115,259,515	Gain
MDS289B	RUNX1	chr21:36,160,097-36,421,595	Gain
MDS292B	ASXL1	chr20:30,946,146-31,027,122	Gain
MDS300B	CBL	chr11:119,076,985-119,178,859	Gain
MDS305B	PRPF8	chr17:1,553,922-1,588,176	Loss
MDS305B	TP53	chr17:7,571,719-7,590,868	Loss
MDS317B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS317B	ASXL1	chr20:30,946,146-31,027,122	Gain
MDS317B	LAMB4	chr7:107,663,995-107,770,801	Loss
MDS318B	KRAS	chr12:25,357,722-25,403,865	Gain
MDS320B	CBL	chr11:119,076,985-119,178,859	Gain
MDS320B	IDH2	chr15:90,627,210-90,645,786	Loss
MDS320B	TP53	chr17:7,571,719-7,590,868	Loss
MDS320B	ZRSR2	chrX:15,808,573-15,841,382	Loss
MDS320B	DNMT1	chr19:10,244,019-10,305,811	Gain
MDS323B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS323B	LAMB4	chr7:107,663,995-107,770,801	Loss
MDS324B	NRAS	chr1:115,247,084-115,259,515	Gain
MDS330B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS330B	LAMB4	chr7:107,663,995-107,770,801	Loss
MDS336B	ASXL1	chr20:30,946,146-31,027,122	Gain
MDS336B	CBL	chr11:119,076,985-119,178,859	Gain
MDS348B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS348B	LAMB4	chr7:107,663,995-107,770,801	Loss
MDS352B	RUNX1	chr21:36,160,097-36,421,595	Gain
MDS352B	U2AF1	chr21:44,513,065-44,527,688	Gain
MDS357B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS367B	JAK2	chr9:4,985,085-5,128,183	Loss
MDS371B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS371B	NPM1	chr5:170,814,119-170,837,888	Loss
MDS371B	RUNX1	chr21:36,160,097-36,421,595	Gain
MDS379B	KRAS	chr12:25,357,722-25,403,865	Gain
MDS380B	EZH2	chr7:148,504,463-148,581,441	Loss

MDS380B	KRAS	chr12:25,357,722-25,403,865	Gain
MDS388B	KRAS	chr12:25,357,722-25,403,865	Loss
MDS388B	ETV6	chr12:11,802,787-12,048,325	Loss
MDS389B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS389B	JAK2	chr9:4,985,085-5,128,183	Loss
MDS394B	RUNX1	chr21:36,160,097-36,421,595	Loss
MDS394B	U2AF1	chr21:44,513,065-44,527,688	Gain
MDS398B	ASXL1	chr20:30,946,146-31,027,122	Loss
MDS409B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS410B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS410B	LAMB4	chr7:107,663,995-107,770,801	Loss
MDS410B	NPM1	chr5:170,814,119-170,837,888	Loss
MDS410B	TP53	chr17:7,571,719-7,590,868	Loss
MDS414B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS414B	LAMB4	chr7:107,663,995-107,770,801	Loss
MDS419B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS419B	JAK2	chr9:4,985,085-5,128,183	Loss
MDS430B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS430B	LAMB4	chr7:107,663,995-107,770,801	Loss
MDS430B	TET2	chr4:106,067,031-106,200,960	Loss
MDS434B	EZH2	chr7:148,504,463-148,581,441	Loss
MDS434B	CBL	chr11:119,076,985-119,178,859	Gain
MDS434B	LAMB4	chr7:107,663,995-107,770,801	Loss
MDS434B	PRPF8	chr17:1,553,922-1,588,176	Loss
MDS434B	RUNX1	chr21:36,160,097-36,421,595	Gain
MDS434B	TP53	chr17:7,571,719-7,590,868	Loss
MDS434B	U2AF1	chr21:44,513,065-44,527,688	Gain
MDS435B	DNMT1	chr19:10,244,019-10,305,811	Gain

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