

NanoHema Research Panel

NanoHema Research Panel v1.0 is a basic panel for hematologic malignancy analysis, spanning ~1.03 Mb of the human genome. This panel involves 266 selected genes which have been widely studied in hematologic disorders.



Performance

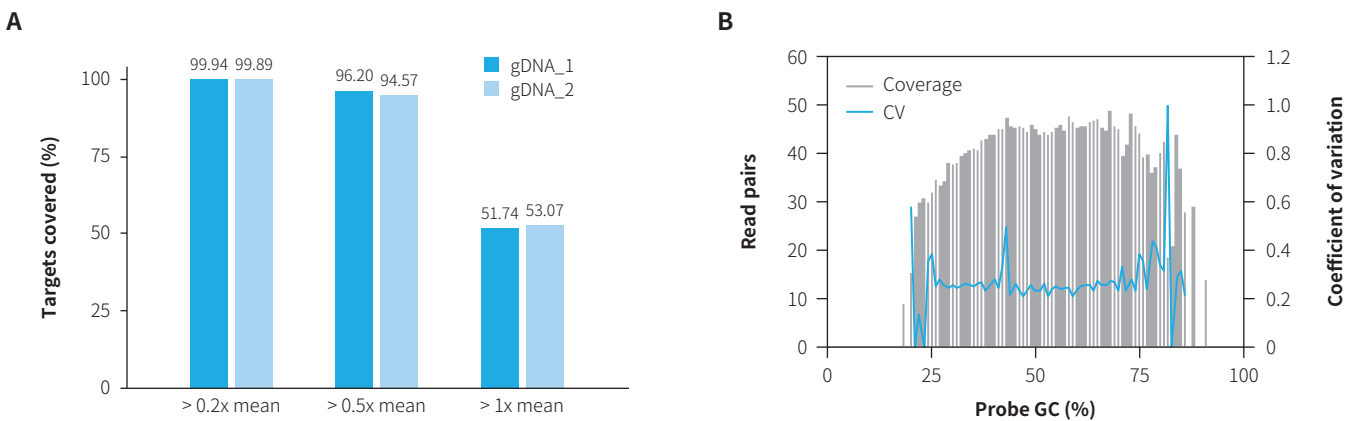


Fig 1. Capture performance of the NanoHema Research Panel v1.0. **A.** Over 99% of targeted regions were sequenced at depth ≥ 0.2 of the coverage mean. **B.** Probes with various GC content showed uniform coverage and low coefficients of variation (CV=0.27).

Table 1. Performance of the NanoHema Research Panel v1.0

	Average depth/Gbase	Mappability (%)	On-target rate (%)
gDNA_1	546 x	99.86	72.78
gDNA_2	535 x	99.63	72.94

The DNA libraries were prepared using NadPrep library kits for Illumina®. The enriched libraries were sequenced on HiSeq X Ten (PE150) and subsampled to 0.5M read pairs for analysis.

Gene list

ABL1	ANKRD26	APC	ARAF	ARC	ARID1A	ARID1B	ARID2	ARID5B	ASXL1
ASXL2	ASXL3	ATG2B	ATG5	ATM	ATRX	B2M	BCL2	BCL6	BCOR
BCORL1	BIRC3	BLM	BLNK	BRAF	BRCA1	BRCA2	BRCC3	BTG1	BTG2
BTK	CALR	CARD11	CBFB	CBL	CCND1	CCND2	CCND3	CCR4	CCR7
CD274	CD28	CD58	CD79A	CD79B	CDKN1A	CDKN2A	CDKN2B	CDKN2C	CEBPA
CEBPE	CHD8	CIITA	CRBN	CREBBP	CRLF2	CSF1R	CSF3R	CSMD1	CTCF
CTLA4	CTNNB1	CUL4B	CXCR4	CYLD	DDX3X	DDX41	DHX15	DIS3	DNM2
DNMT3A	DPF1	DPF2	DPF3	DUSP22	DUX4	EBF1	ECT2L	EED	EGFR
EGR2	EIF2A	EP300	EPCAM	EPHA7	EPOR	ERBB3	ERG	ETNK1	ETV6
EZH2	FAM46C	FAS	FAT1	FBXW7	FGFR1	FGFR3	FLT3	FOXO1	FOXO3
FYN	GATA1	GATA2	GATA3	GLTSCR1	GNA13	GNAI2	GSKIP	HACE1	HNRNPA2B1
HRAS	ID3	IDH1	IDH2	IFNLR1	IGLL5	IKZF1	IKZF2	IKZF3	IL7R
INO80	INPP5D	IRF4	ITK	ITPKB	JAK1	JAK2	JAK3	KANSL1	KDM6A
KIT	KLF2	KMT2A	KMT2B	KMT2C	KMT2D	KRAS	LMO2	LTB	MAFA
MAFB	MALT1	MAP2K1	MAPK1	MECOM	MED12	MEF2B	MEF2D	MET	MFHAS1
MGA	MICRO142	MLH1	MPL	MSH2	MSH6	MTOR	MYBBP1A	MYC	MYD88
NF1	NFKB1	NFKB2	NFKBIE	NOTCH1	NOTCH2	NPM1	NRAS	NT5C2	NTRK3
P2RY8	PAX5	PBRM1	PBX1	PDCCD1LG2	PDGFRA	PDGFRB	PHF6	PIGA	PIK3CA
PIM1	PLCG1	PLCG2	PML	PMS2	POT1	PPM1D	PRDM1	PRKCB	PTEN
PTK2B	PTPN1	PTPN11	PTPRD	PTPRK	RAD21	RAF1	RARA	RB1	REL
RELA	RELB	RELN	RET	RHOA	RNF4	RPS15	RRAGC	RUNX1	SAMD9
SAMD9L	SAMHD1	SETBP1	SETD2	SF1	SF3B1	SGK1	SH2B3	SH2D1A	SMARCA2
SMARCA4	SMARCB1	SMC1A	SMC2	SMC3	SOCS1	SOS1	SPEN	SRP72	SRSF2
STAG2	STAT1	STAT2	STAT3	STAT4	STAT5A	STAT5B	STAT6	SUZ12	SYK
TBL1XR1	TCF3	TERT	TET1	TET2	TNFAIP3	TNFRSF14	TNFRSF1B	TP53	TP63
TP73	TRAF3	TYK2	U2AF1	UNC13D	VAV1	VHL	VPREB1	WT1	XPO1
ZAP70	ZBTB7A	ZEB2	ZMYM3	ZNF292	ZRSR2				

Ordering Information

Product	Catalog #
NanoHema Research Panel v1.0, 16 rxn	1001704
NanoHema Research Panel v1.0, 96 rxn	1001705

For research use only. Not for use in diagnostic procedures.

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Version1.0

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