

Expanded Carrier Screen Panel

Four steps. One reaction. 43,000+ probes.

With critical biomarkers associated with inherited diseases everchanging, and each lab having different sequencing needs, this 1 Mbp of content is for everyone. Pick the genes you want and we'll ship you your customized panel. It's that simple.

Key Features & Benefits

Ease of Use

- 43,000+ probes in a single reaction
- 4 step addition-only Illumina compatible workflow

Performance

- Exceptional specificity using molecular inversion probes
- Redundantly tiled probes—each with a unique binding site to protect against allele dropouts

Flexibility

- À la carte offering of 1 Mbp of content covering 339 genes and all 5' UTRs
- Easy to implement, automate, and scale

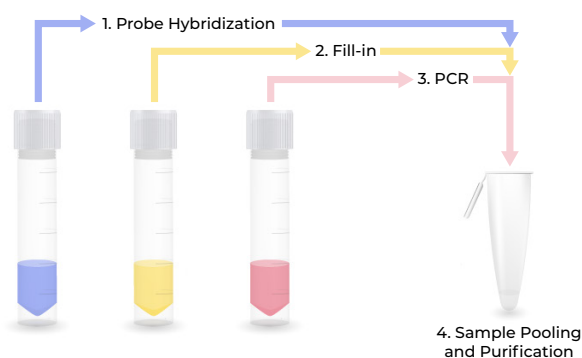


Figure 1. Molecular Loop's elegant 4-step workflow involves simple master mix additions to a single sample tube or well.

Exceptional performance with a 1 Mbp, 339 full gene panel including 5' UTRs

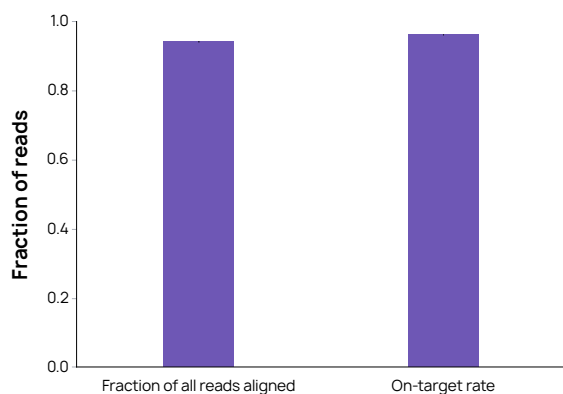


Figure 2. 96% on-target rate with first pass design. No optimization required.

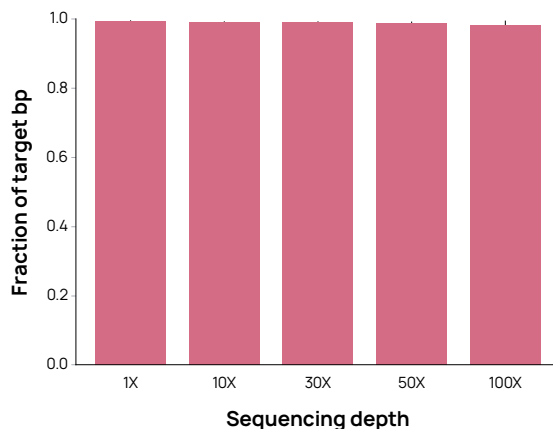


Figure 3. $\geq 100X$ coverage depth across $>98\%$ of target bases with 11.7M read pairs per sample.

339 genes. Take your pick.

ABCB11	ATP7A	COX15	ERCC5	GBE1	HMOX1	MEFV	NPHS2	RAB23	SLC7A7
ABCC8	ATP7B	CPS1	ERCC6	GCDH	HOGA1	MESP2	NR0B1	RAG2	SMARCAL1
ABCD1	ATRX	CPT1A	ERCC8	GFM1	HPS1	MFSD8	NR2E3	RAPSN	SMN1
ACAD9	BBS1	CPT2	ESCO2	GHRHR	HPS3	MKS1	NTRK1	RARS2	SMPD1
ACADM	BBS10	CRB1	ETFA	GJB1	HSD17B4	MLC1	OAT	RDH12	STAR
ACADS	BBS12	CTNS	ETFDH	GJB2	HSD3B2	MMAA	OPA3	RMRP	SUMF1
ACADVL	BBS2	CTSA	ETHE1	GJB6	HYAL1	MMAB	OTC	RPE65	SURF1
ACAT1	BCKDHA	CTSC	EVC	GLA	HYLS1	MMACHC	PAH	RPGRIP1L	TAT
ACOX1	BCKDHB	CTSK	EVC2	GLB1	IDS	MMADHC	PANK2	RS1	TCIRG1
ACSF3	BCS1L	CYBA	EYS	GLDC	IDUA	MMUT	PC	RTEL1	TECPR2
ADA	BLM	CYBB	F11	GLE1	IL2RG	MPI	PCCA	SACS	TFR2
ADAMTS2	BSND	CYP11B1	F2	GNE	IVD	MPL	PCCB	SAMHD1	TGM1
ADGRG1	BTD	CYP11B2	F5	GNPTAB	KCNJ11	MPV17	PCDH15	SEPSECS	TH
AGA	CAPN3	CYP17A1	F9	GNPTG	LAMA2	MTHFR	PDHA1	SERPINA1	TMEM216
AGL	CBS	CYP19A1	FAH	GNS	LAMA3	MTM1	PDHB	SGCA	TPP1
AGPS	CCN6	CYP1B1	FAM161A	GP1BA	LAMB3	MTRR	PEX1	SGCB	TRMU
AGXT	CDH23	CYP21A2	FANCA	GP1BB	LAMC2	MTTP	PEX10	SGCD	TSFM
AIRE	CEP290	CYP27A1	FANCC	GP9	LCA5	MYO7A	PEX12	SGCG	TTC37
ALDH3A2	CERKL	DBT	FANCG	GRHPR	LDLR	NAGLU	PEX2	SGSH	TTPA
ALDOB	CFTR	DCLRE1C	FH	GSS	LDLRAP1	NAGS	PEX26	SLC12A3	TYMP
ALG6	CHM	DHCR7	FKRP	GUSB	LHX3	NBN	PEX6	SLC12A6	TYR
ALMS1	CHRNE	DHDDS	FKTN	HADHA	LIFR	NDRG1	PEX7	SLC17A5	USH1C
ALPL	CIITA	DLD	FMR1	HAX1	LIPA	NDUFAF2	PFKM	SLC19A2	USH2A
AMT	CLN3	DMD	FOXRED1	HBA1	LIPH	NDUFAF5	PHGDH	SLC22A5	VPS13A
AQP2	CLN5	DNAH5	FUCA1	HBA2	LOXHD1	NDUFS4	PKHD1	SLC25A13	VPS13B
ARG1	CLN6	DNAI1	G6PC1	HBB	LPL	NDUFS6	PMM2	SLC25A15	VPS45
ARSA	CLN8	DNAI2	G6PD	HEXA	LRPPRC	NDUFS7	POMGNT1	SLC25A20	VRK1
ARSB	CLRN1	DPYD	GAA	HEXB	MAN2B1	NDUFV1	PPT1	SLC26A2	VSX2
ASL	CNGB3	DYSF	GALC	HFE	MANBA	NEB	PROP1	SLC26A4	WNT10A
ASNS	COL27A1	EDA	GALK1	HGD	MCCC1	NEU1	PRPS1	SLC35A3	WRN
ASPA	COL4A3	EDAR	GALNS	HGSNAT	MCCC2	NLRP7	PSAP	SLC37A4	XPA
ASS1	COL4A4	EIF2B5	GALT	HJV	MCOLN1	NPC1	PTS	SLC39A4	XPC
ATM	COL4A5	ELP1	GAMT	HLCS	MECP2	NPC2	PUS1	SLC4A11	ZFYVE26
ATP6V1B1	COL7A1	EMD	GBA	HMGCL	MED17	NPHS1	PYGM	SLC6A8	



For more information on our Illumina or PacBio panels, visit us at: www.molecularloop.com or email us at: sales@molecularloop.com.

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Molecular Loop Biosciences, Inc.
300 Tradecenter Drive, Suite 5400, Woburn, MA 01801
www.molecularloop.com | sales@molecularloop.com