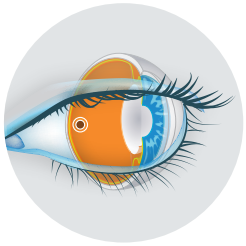
Multiplicom
A part of Agilent Technologies

STARGARDT MASTR

STARGARDT MASTR is a ready to use molecular research assay for early detection of *ABCA4*, *ELOVL4* and *CNGB3* variants associated with Stargardt macular dystrophy. This assay allows the analysis of SNVs, indels and CNVs in one single sequencing run.



Research application

- For the detection of variants (SNVs and CNVs), in 3 selected genes associated with Stargardt on blood-derived DNA using Illumina MiSeq®

Assay characteristics

Genes	*ABCA4, ELOVL4* and *CNGB3*
Genomic region analyzed	21.7 kb
Number of amplicons	91
Amplicon length	300 – 430 bp
Number of plexes	4
Verified with NGS System	Illumina MiSeq
Designed to be compatible with	Illumina NGS systems

Performance Characteristics

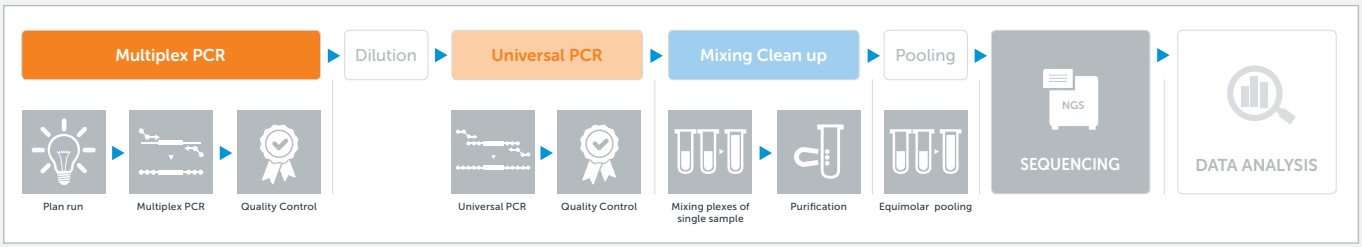
Uniformity of amplification (0.2X mean coverage)	≥ 98 %
On target read count	≥ 96 %
DNA input	as low as 20 ng per plex

Advised maximum number of samples per run:

Sequencing System	Illumina MiSeq®		
	Reagent kit		
Flow cell	Nano v 2 2 x 250 bp	v2 2 x 250 bp	v3 2 x 300 bp
For SNV only			
Minimal coverage per allele: 20	46	690*	1266*
For SNV and CNV			
Minimal coverage per amplicon: 200	9	139	254*

**only 192 MID combinations available.*

Workflow



Order info

Cat. No.	Product Name	Product type	Reactions
MR-0171.024	*STARGARDT MASTR*	*Research*	*24*

MID (Molecular Identifiers) kits are necessary to complete the workflow.

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