

DMD

A simple and robust molecular research assay for the identification of all SNVs and CNVs in the *DMD* gene associated with Muscular Dystrophies

Research application

Detection of DMD variants associated with

- Duchenne Muscular Dystrophy (DMD)
- Becker Muscular Dystrophy (BMD)
- X-linked dilated cardiomyopathy (XLCM)

ıy ristics	Genes analyzed	DMD transcript NM_004006 (Dp427m isoform)
	Genomic region analyzed	23 kb all 79 exons +/- 30 kb flanking region CNVs and SNVs
acte	Number of amplicons	118 including 28 control amplicons
chara	Amplicon length	280-400 bp
	Number of plexes	4
	DNA amount required	20 ng per multiplex reaction

Advised maximum number of samples per run:

Security Statem	Illumina MiSeq®			
Sequencing System	Reagent kit			
Flow cell	Nano v 2 2 x 251 cycles	v2 2 x 251 cycles	v3 2 x 276 cycles	
For SNV only				
Minimal coverage per allele: 20	35	530*	972 *	
For SNV and CNV				
Minimal coverage per amplicon: 200	75	107	196*	

* only 192 MID combinations available

Workflow

^s for statistically reliable CNV calling, it is advised to analyze minimum 10 samples together. Identical CNVs can not be present in more than 15 % of the samples of a sequencing run.



	Cat. No.	Product Name	Reactions	
	MR-0120.008	DMD MASTR	8	
MID	MID (Molecular Identifiers) kits are necessary to complete the workflow.			

© Agilent Technologies, Inc. 2017 Printed in Belgium, December 31, 2017 5991-8382EN PR7000-1407

For Research Use Only. Not for use in diagnostic procedures.