

This ready-to-use research assay allows the identification of all mutations in 51 genes associated with Primary Electrical Disorders (PED), using the MASTR Plus simplified protocol.

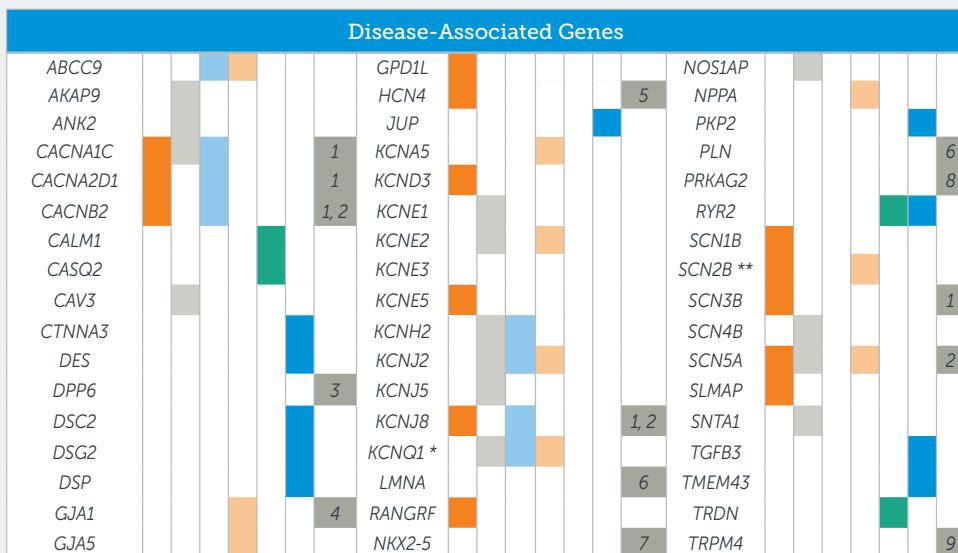


Research application

- Identification of all mutations in 51 genes associated with Primary Electrical Disorders (PED)

| | |
|-------------------------|------------------------------|
| Genomic region analyzed | 276.8 kb |
| Number of amplicons | 952 |
| Amplicon length | 300-440 bp |
| Number of plexes | 11 |
| DNA amount required | 20 ng per multiplex reaction |

Assay Characteristics



- AF: Atrial Fibrillation
- ARVD: Arrhythmogenic Right Ventricular Dysplasia
- ASD & AV: Atrial Septal Defect And Atrioventricular Block
- BrS: Brugada Syndrome
- CM: Cardiomyopathy
- CPVT: Catecholaminergic Polymorphic Right Ventricular Dysplasia
- EFS: Early Repolarization Syndrome
- HB: Heart Block
- IVF: Idiopathic Ventricular Fibrillation
- LQTS: Long QT Syndrome
- SIDS: Sudden Infant Death Syndrome
- SQTS: Short QT Syndrome
- SSS: Sick Sinus Syndrome
- WPW: Wolff–Parkinson–White syndrome

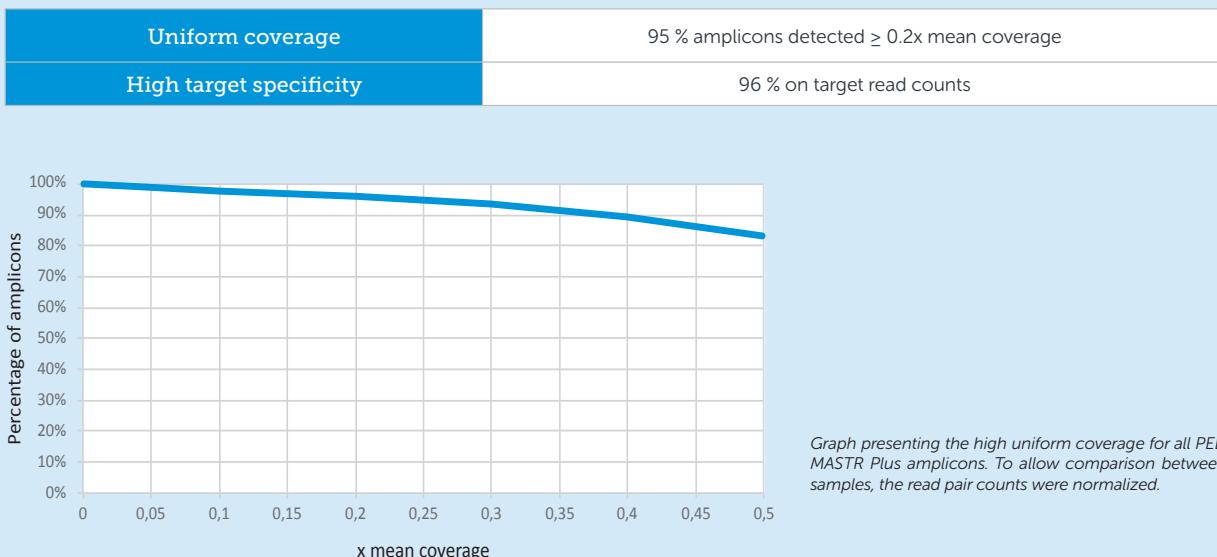
Pathologies

| | | | | | | | | | |
|----------------------|------|------|--|------|-------------------|--------|--------|---------------|--------|
| BrS | LQTS | SQTS | AF | ARVD | 1: IVF associated | 2: EFS | 3: IVF | 4: SIDS | 5: SSS |
| 6: Arrhythmogenic CM | | | 7: ASD & AV conductive defects, Ebstein ASD +/- AV block | | | 8: WPW | | 9: HB Type 1B | |

* excl. exon 9

** excl. exon 4

Performance Characteristics



Workflow

SNV and CNV* variant calling: advised maximum number of samples per run

| Illumina MiSeq® | |
|-----------------|------------|
| Reagent Kit | Nr samples |
| Kit v2 | 5 |
| Kit v3 | 10 |



Order info

| Cat. No. | Product Name | Samples |
|-------------|----------------|---------|
| MR-0260.024 | PED MASTR Plus | 24 |

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

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

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