

| Gene | Chr** | Mode of inheritance | Disease | Comments |
|---------------|-------|---------------------|---|--|
| ABCD1* | X | X-linked | Adrenomyeloneuropathy | |
| AIFM1 | X | X-linked | AIFM1 related disorders | |
| AR | X | X-linked | Androgen insensitivity syndrome | The current testing method does not assess CAG trinucleotide repeats in exon 1 in this gene. |
| CASK | X | X-linked | FG syndrome type 4; X-linked intellectual developmental disorder, Najm type | |
| CFTR | 7 | Autosomal recessive | Cystic fibrosis | Only variants associated with classical Cystic Fibrosis are reported. Intron 8 polymorphic region in CFTR gene (5T allele) is only reported when the NM_000492.4:c.350G>A (p.Arg117His) variant is detected. |
| CHM | X | X-linked | Choroideremia | |
| COL4A5 | X | X-linked | Alport syndrome type 1 | |
| DCX | X | X-linked | Lissencephaly type 1; Subcortical band heterotopia | |
| DMD | X | X-linked | Duchenne muscular dystrophy; Becker muscular dystrophy | |
| EDA | X | X-linked | Hypohidrotic ectodermal dysplasia type 1 | |
| F8* | X | X-linked | Hemophilia A | Detection of intron 22 inversion in the F8 gene is also included |
| F9 | X | X-linked | Hemophilia B | |

Genes located in Chromosome X are only analysed in females.

*These genes have homology with other genomic loci and therefore the accuracy of the test may be decreased.

**Chromosome

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| FMRI | X | X-linked | Fragile X syndrome | 5' UTR CCG trinucleotide repeats are analysed. Only alleles in the range of full mutation (>200 repeats) and premutation (55-200 repeats) are reported. Mosaicism, including gonadal mosaicism, may not be detected |
| FOXP3 | X | X-linked | IPEX syndrome | |
| GJB2 | 13 | Autosomal recessive | Deafness autosomal recessive type 1A | Variants associated with a mild phenotype are not reported. |
| GLA | X | X-linked | Fabry disease | |
| GPR143 | X | X-linked | X-linked recessive ocular albinism; Congenital Nystagmus type 6 | |
| HBA1-2 | 16 | Autosomal recessive | Alpha-thalassemia | Whole gene analysis is not performed. Included variants: --MED ; --SEA ; --THAI ; - α 3.7 ; - α 4.2 ; - α 20.5 ; --FIL; Hb Constant Spring (NM_000517.4:c.427T>C) |
| HBB | 11 | Autosomal recessive | Beta-thalassemia; Sickle cell disease | |
| IDS* | X | X-linked | Mucopolysaccharidosis type 2 | |
| IQSEC2 | X | X-linked | X-linked intellectual developmental disorder type 1 | |
| MECP2 | X | X-linked | RETT related disorders | |
| MTM1 | X | X-linked | X-linked centronuclear myopathy | |
| OFD1 | X | X-linked | Joubert syndrome type 10 | |
| OTC | X | X-linked | Ornithine transcarbamylase deficiency | |

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| PRPS1* | X | X-linked | PRPS1 related disorders | |
| RS1 | X | X-linked | Retinoschisis | |
| SLC6A8* | X | X-linked | Cerebral creatine deficiency syndrome type 1 | |
| SMN1 | 5 | Autosomal recessive | Spinal Muscular Atrophy | Only deletion of the exon 7 in SMN1 gene is included. No sequencing or deletion/duplication analysis is conducted in other regions of this gene. This test does not detect "silent" carriers of SMA, who have two copies of the SMN1 gene on one chromosome and none on the other |
| SYN1 | X | X-linked | X-linked epilepsy-learning disabilities-behavior disorders syndrome; X-linked intellectual developmental disorder type 50 | |
| TFAZZIN | X | X-linked | Barth syndrome | |
| WAS | X | X-linked | Wiskott-Aldrich syndrome; X-linked severe congenital neutropenia; X-linked thrombocytopenia | |
| XIAP* | X | X-linked | X-linked lymphoproliferative syndrome type 2 | |
| ZIC3 | X | X-linked | X-linked heterotaxia; VACTERL with hydrocephalus | |

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