



Elenco Geni/Frequenza/Disordine analizzati nel Test del Portatore

Frequenza portatore 1/50 -	Gene	Frequenza portatore (OMIM)	Disordine	Risultato
	<i>HBB</i>	0.119837	Sickle cell anemia β-thalassemia	Assenza varianti
	<i>XPC</i>	0.050885	Xeroderma pigmentosum	Assenza varianti
	<i>TYR</i>	0.049337	Oculocutaneous albinism type 1A and 1B	Assenza varianti
	<i>PAH</i>	0.046068	Phenylketonuria	Assenza varianti
	<i>CFTR</i>	0.040972	Cystic fibrosis	Assenza varianti
	<i>HEXA</i>	0.033146	Tay–Sachs disease	Assenza varianti
	<i>GJB2</i>	0.026200	Nonsyndromic hearing loss recessive 1A	Assenza varianti
			Nonsyndromic hearing loss dominant 3A	Assenza varianti
	<i>DHCR7</i>	0.023709	Smith–Lemli–Opitz syndrome	Assenza varianti
	<i>ATP7B</i>	0.021983	Wilson disease	Assenza varianti
	<i>ASPA</i>	0.019856	Canavan disease	Assenza varianti
	<i>ACADM</i>	0.016583	Medium-chain acyl-coenzyme A dehydrogenase deficiency	Assenza varianti
	<i>PMM2</i>	0.015877	Carbohydrate-deficient glycoprotein syndrome type Ia	Assenza varianti
	<i>FKTN</i>	0.015660	Cardiomyopathy, dilated, 1X	Assenza varianti
			Walker–Warburg congenital muscular dystrophy	Assenza varianti
	<i>SLC26A4</i>	0.015422	Deafness autosomal recessive 4	Assenza varianti
			Pendred syndrome	Assenza varianti
	<i>ERCC2</i>	0.015255	Cerebrooculofacioskeletal syndrome 2	Assenza varianti
			Trichothiodystrophy 1, photosensitive	Assenza varianti
	<i>DYNC2H1</i>	0.014817	Short-rib thoracic dysplasia 3 with or without polydactyly	Assenza varianti



Frequenza portatore 1/50 - 1/100	Gene	Frequenza portatore (OMIM)	Disordine	Risultato
	<i>CEP290</i>	0.014422	Joubert syndrome 5	Assenza varianti
			Leber congenital amaurosis 10	Assenza varianti
	<i>GBE1</i>	0.013799	Glycogen storage disease, type IV	Assenza varianti
			GBE1-related disorders	Assenza varianti
	<i>GAA</i>	0.013565	Glycogen storage disease, type II (Pompe disease)	Assenza varianti
	<i>CHRNE</i>	0.013526	Myasthenic syndrome, congenital, 4A, slow-channel	Assenza varianti
			Myasthenic syndrome, congenital, 4B, fast-channel	Assenza varianti
	<i>G6PC</i>	0.013401	Glycogen storage disease type IA	Assenza varianti
	<i>COL7A1</i>	0.012995	Recessive dystrophic epidermolysis bullosa	Assenza varianti
	<i>ALDOB</i>	0.012119	Hereditary fructosuria	Assenza varianti
	<i>FANCC</i>	0.011992	Fanconi anemia, complementation group C	Assenza varianti
	<i>GRIP1</i>	0.011989	Fraser syndrome	Assenza varianti
	<i>BCKDHB</i>	0.011760	Maple syrup urine disease	Assenza varianti
	<i>ANO10</i>	0.010781	Spinocerebellar ataxia 10	Assenza varianti
	<i>NAGA</i>	0.010637	Schindler disease, type 1	Assenza varianti
			Schindler disease, type 3	Assenza varianti
	<i>SMPD1</i>	0.010259	Niemann–Pick disease, type A	Assenza varianti
			Niemann–Pick disease, type B	Assenza varianti
	<i>USH2A</i>	0.010203	Usher syndrome, type 2A	Assenza varianti
	<i>MMUT</i>	0.009999	Methylmalonic aciduria–methylmalonyl–CoA mutase deficiency	Assenza varianti
	<i>CPT2</i>	0.009742	Carnitine palmitoyltransferase II deficiency, infantile	Assenza varianti
			Carnitine palmitoyltransferase II deficiency, lethal neonatal	Assenza varianti
	<i>AHII</i>	0.009740	Joubert syndrome 3	Assenza varianti



Frequenza portatore 1/100 - 1/150	Gene	Frequenza portatore (OMIM)	Disordine	Risultato
	<i>DHDDS</i>	0.009340	Congenital disorder of glycosylation type 1	Assenza varianti
			Retinitis pigmentosa 59	Assenza varianti
	<i>SLC19A3</i>	0.009163	Basal ganglia disease, biotin-responsive	Assenza varianti
	<i>GALT</i>	0.009132	Galactosemia	Assenza varianti
	<i>MMACHC</i>	0.008610	Methylmalonic aciduria with homocystinuria cbLC type	Assenza varianti
	<i>GBA</i>	0.008572	Gaucher disease, type I	Assenza varianti
			Gaucher disease, type II	Assenza varianti
	<i>MCOLN1</i>	0.008531	Mucolipidosis type IV	Assenza varianti
	<i>GNPTAB</i>	0.008454	Mucolipidosis type II alpha/beta	Assenza varianti
			Mucolipidosis type III alpha/beta	Assenza varianti
	<i>AGA</i>	0.008364	Aspartylglucosaminuria	Assenza varianti
	<i>PCDH15</i>	0.008330	Deafness, autosomal recessive 23	Assenza varianti
			Usher syndrome, type 1F	Assenza varianti
	<i>FAH</i>	0.007716	Tyrosinemia type I	Assenza varianti
	<i>BBS2</i>	0.007501	Bardet–Biedl syndrome 2	Assenza varianti
			Retinitis pigmentosa 74	Assenza varianti
	<i>CCDC88C</i>	0.007282	Congenital hydrocephalus 1	Assenza varianti
	<i>FMO3</i>	0.007190	Trimethylaminuria	Assenza varianti
	<i>TMEM216</i>	0.007107	Joubert syndrome 2	Assenza varianti
			Meckel syndrome 2	Assenza varianti
	<i>MCPH1</i>	0.006822	Primary microcephaly 1, recessive	Assenza varianti
	<i>SLC37A4</i>	0.006748	Glycogen storage disease Ib	Assenza varianti
			Glycogen storage disease Ic	Assenza varianti



	<i>SCO2</i>	0.006671	Mitochondrial complex IV deficiency, nuclear type 2	Assenza varianti
	<i>AGXT</i>	0.006648	Hyperoxaluria, primary type I	Assenza varianti

Frequenza portatore 1/150 - 1/200	Gene	Frequenza portatore (OMIM)	Disordine	Risultato
	<i>ACADVL</i>	0.006419	Very long chain acyl-CoA dehydrogenase deficiency	Assenza varianti
	<i>ASL</i>	0.006190	Argininosuccinate aciduria	Assenza varianti
	<i>EVC2</i>	0.006083	Chondroectodermal dysplasia	Assenza varianti
	<i>ARSA</i>	0.005986	Metachromatic leukodystrophy	Assenza varianti
	<i>MVK</i>	0.005966	Hyper-IgD syndrome	Assenza varianti
			Mevalonic aciduria	Assenza varianti
	<i>BTD</i>	0.005953	Biotinidase deficiency	Assenza varianti
			Hypophosphatasia, childhood and infantile	Assenza varianti
	<i>BBS1</i>	0.005713	Bardet-Biedl syndrome 1	Assenza varianti
	<i>CLCN1</i>	0.005688	Congenital myotonia, autosomal recessive form	Assenza varianti
	<i>MCCC2</i>	0.005184	3-methylcrotonyl CoA carboxylase 2 deficiency	Assenza varianti
	<i>MLC1</i>	0.005058	Megalencephalic leukoencephalopathy with subcortical cysts	Assenza varianti
	<i>ACAT1</i>	0.005000	α -Methylacetooacetic aciduria	Assenza varianti



	<i>LRP2</i>	0.004676	Donnai-Barrow syndrome	Assenza varianti
	<i>IDUA</i>	0.004675	Mucopolysaccharidosis, Ih (Hurler S)	Assenza varianti
			Mucopolysaccharidosis, Ih/s (Hurler–Scheie S)	Assenza varianti
	<i>FKRP</i>	0.004668	Muscular dystrophy–dystroglycanopathy, type A, 5, type B, 5	Assenza varianti
	<i>RNASEH2B</i>	0.004609	Aicardi Goutieres syndrome 2	Assenza varianti
	<i>RARS2</i>	0.004592	Pontocerebellar hypoplasia type 6	Assenza varianti

Outside gnomAD criteria	Gene	Frequenza portatore (OMIM)	Disordine	Risultato
	DLD	246900	Dihydrolipoamide dehydrogenase deficiency	Assenza varianti
	<i>NEB</i>	256030	Nemaline myopathy 2	Assenza varianti
	<i>CLRN1</i>	276902	Usher syndrome 3a	Assenza varianti
	<i>BLM</i>	210900	Bloom syndrome	Assenza varianti

X linked genes	Gene	Frequenza portatore (OMIM)	Disordine	Risultato
	<i>ABCD1</i>	300100	Adrenoleukodystrophy (ALD)	Assenza varianti
	<i>AFF2</i>	309548	Mental retardation, X-linked, associated with fragile site FRAXE	Assenza varianti
	<i>DMD</i>	300376	Muscular dystrophy, Becker type (BMD)	Assenza varianti
		310200	Muscular dystrophy, Duchenne type (DMD)	Assenza varianti
	<i>GLA</i>	301500	Fabry disease	Assenza varianti

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	<i>LICAM</i>	307000	Hydrocephalus due to congenital stenosis of aqueduct of Sylvius (HSAS)	Assenza varianti
	<i>MIDI</i>	300000	Opitz GBBB syndrome, type I (GBBB1)	Assenza varianti
	<i>OTC</i>	311250	Ornithine transcarbamylase deficiency	Assenza varianti
	<i>SLC6A8</i>	300352	Cerebral creatine deficiency syndrome 1 (CCDS1)	Assenza varianti