

MyScreen

NGS based carrier screening

MyScreen - בדיקת סקר גנטי מורחב - כי מגיע לך לדעת יותר!

מהי בדיקת MyScreen?

MyScreen הינה בדיקת סקר גנטי מורחב המקיפה והמואמת ביותר לאוכלוסייה בישראל. הבדיקה מבוצעת במכונים הגנטיים בארץ בסטנדרטים מחמירים. מטרתה של הבדיקה להפחית את הסיכון להולדת ילד חולה. **הבדיקה כוללת בירור למעל 1800 מוטציות שכיחות ביותר מכלל העדות והמוצאים (יהודים ולא יהודים).**

בבדיקה מכוסות כל המוטציות למחלות בעדות ספציפיות אשר נכללו בסל הבריאות וכן אלו שאושרו ע"י האיגוד הגנטי וטרם הוכנסו לסל הבריאות (למעט בדיקות ה-Fragile X, DMD ו-SMA הכלולות בסל הבריאות ויבוצעו בשיטה אחרת). בנוסף מכילה הבדיקה בירור למוטציות רבות לפי המלצות המכונים הגנטיים אשר לא נכללות בסל הבריאות כיום או בבדיקות סקר המבוצעות בחו"ל. ניתן לקבל הסבר נוסף במכון הגנטי.

מהי בדיקת סקר גנטי?

בדיקת סקר גנטי מזהה האם הינך נשא/ית לאחת מהתסמונות הגנטיות הנכללות בבדיקה. בבדיקה כלולות בדר"כ מחלות רבות ובכללן מחלה מגוונת המוטציות השכיחות בישראל. המונח "נשאות" מתייחס למצב שבו אדם בריא לחלוטין נושא במטען הגנטי שלו שינוי/ליקוי גנטי ("מוטציה") באחד מהעותקים של גן מסוים בעוד העותק השני תקין. הסיכוי להיות נשא למחלה גנטית תורשתית כלשהי בקרב האוכלוסייה הישראלית מוערך ב-20%-40. רק כאשר שני בני הזוג נמצאו נשאים לאותה מחלה קיים סיכוי של 25% ללידת ילד חולה במחלה.

בישראל קיימת תוכנית סקר גנטי מצוינת ובדיקות רבות נכללות בסל הבריאות (כגון Tay Sachs, CF ועוד). עם זאת, תוכנית זו מכסה רק את המחלות השכיחות ביותר בהתאם לקריטריונים של שכיחות המחלה וחומרתה. דוגמה לכך היא מחלת ה-CF שבה נבדקות כיום רק 19 מוטציות בסל הבריאות מתוך מאות מוטציות אפשריות. בדיקת ה-MyScreen מכסה 236 מוטציות ידועות בגן ה-CF ובכך הסיכוי לאתר נשאים למחלה זו עולה. כמו כן מכסה הבדיקה מאות מוטציות למחלות נוספות שכלל לא כלולות כיום בסל הבריאות.

Gene	Disease	
TNNT1	Nemaline myopathy 5, Amish type	467
TPP1	Ceroid lipofuscinosis, neuronal, 2	468
TRAK1	Encephalopathy, fatal	469
TRAPPC9	Mental retardation, Autosomal Recessive 13	470
TRIM32	Bardet-Biedl syndrome 11	471
TRIOBP	Deafness, Autosomal Recessive 28	472
TRMT10A	Microcephaly, short stature	473
TRMU	LIFT, Liver failure infantile transient	474
TRPM1	Night blindness, 1C	475
TRPM6	Hypomagnesemia 1, intestinal	476
TSHR	Hypothyroidism, congenital, nongoitrous, 1	477
TSPAN12	Vitroretinal vascular malformations, congenital	478
TTN	Cardiomyopathy, dilated - Lethal Congenital Arthrogryposis	479
TUBGCP4	Microcephaly, primary, Autosomal Recessive	480
TULP1	Retinitis pigmentosa 14	481
TYMP	Mitochondrial DNA depletion syndrome 1 (MNGIE type)	482
TYR	Albinism, oculocutaneous, type IA (OCA1A)	483
UNC13D	Hemophagocytosis lymphohistiocytosis, familial, 3	484
UNC80	Hypotonia infantile (HPFR2)	485
UPB1	Beta-ureidopropionase deficiency	486
UQCRCQ	Mitochondrial complex III deficiency, nuclear type 4	487
USH1C	Usher syndrome, type 1C	488
USH1G	Usher syndrome, type 1G	489
USH2A	Usher syndrome, type 2A	490
USMG5	Leigh syndrome related to USMG5	491
VDR	Rickets, vitamin D-resistant, type IIA	492
VIPAS39	ARC syndrome 2	493
VPS11	Hypomyelination and developmental delay	494
VPS13A	Choreoacanthocytosis	495
VPS13B	Cohen syndrome	496
VPS33B	ARC syndrome	497
VPS37A	Spastic paraplegia 53, Autosomal Recessive	498
VPS45	Neutropenia, severe congenital, 5, Autosomal Recessive	499
VPS53	Pontocerebellar hypoplasia, type 2E (PCCA2)	500
VRK1	Pontocerebellar hypoplasia type 1A	501
WFS1	Wolfram-like syndrome, Autosomal Dominant	502
WISP3	Arthropathy, progressive pseudorheumatoid, of childhood	503
XPC	Xeroderma pigmentosum, group C	504
XRCC2	Fanconi Anemia	505
ZBTB24	Immunodeficiency-centromeric instability-facial anomalies syndrome-2	506
ZMPSTE24	Mandibuloacral dysplasia with type B lipodystrophy	507
ZNF469	Brittle cornea syndrome 1	508

Gene	Disease	
SLC39A4	Acrodermatitis enteropathica	425
SLC45A2	Albinism, oculocutaneous, type IV	426
SLC46A1	Folate malabsorption, hereditary	427
SLC4A4	Renal tubular acidosis (RTA)	428
SLC02A1	Hypertrophic osteoarthropathy	429
SMARCA1	Schimke immunosseous dysplasia	430
SMN1	Spinal muscular atrophy-1	431
SMPD1	Niemann-Pick disease type B, SMPD1-related	432
SNAP29	CEDNIK Syndrome	433
SNX10	Osteopetrosis, Autosomal Recessive 8	434
SPG11	Spastic paraplegia 11, Autosomal Recessive	435
SPINK5	Netherton syndrome	436
ST3GAL3	Early infantile epileptic encephalopathy 15	437
STRA6	Microphthalmia	438
STRC	Deafness, Autosomal Recessive 16	439
SUCLA2	Mitochondrial DNA depletion syndrome 5	440
SUMF1	Multiple sulfatase deficiency	441
SURF1	Leigh syndrome, due to COX deficiency	442
SYNE4	Deafness, Autosomal Recessive 76	443
SZT2	Early infantile epileptic encephalopathy, early infantile, 18	444
SeoSacS	Pontocerebellar hypoplasia type 2D	445
TAF2	Mental retardation, Autosomal Recessive 40	446
TBCD	Infantile neurodegenerative disorder (PEBAT)	447
TBCE	Hypoparathyroidism retardation dysmorphism syndrome	448
TBX19	Adrenocorticotrophic hormone deficiency	449
TCIRG1	Osteopetrosis, Autosomal Recessive 1	450
TCTN2	Meckel syndrome 8	451
TECP2	Spastic paraplegia 49, Autosomal Recessive	452
TGM1	Ichthyosis, congenital, Autosomal Recessive 1	453
THG1L	Cerebellar ataxia and developmental delay	454
TIMM50	3-methylglutaconic aciduria, type IX	455
TK2	Mitochondrial DNA depletion syndrome 2 (myopathic type)	456
TKT	TRANSKETOLASE DEFICIENCY	457
TMC1	Deafness, Autosomal Recessive 7	458
TMEM165	Congenital disorder of glycosylation	459
TMEM216	Joubert syndrome 2 (MKS2)	460
TMEM231	Meckel syndrome 11	461
TMEM260	Neurodevelopmental, Cardiac, and Renal Syndrome	462
TMEM38B	Osteogenesis imperfecta, type XIV	463
TMEM67	Joubert syndrome type 6 (MSK3)	464
TMEM70	ATPase deficiency, nuclear encoded	465
TMPRSS3	Deafness, Autosomal Recessive 8/10	466

לפרטים נוספים והזמנת הבדיקה

יש לפנות למזכירות המכון הגנטי בבתי החולים הבאים:

בילינסון/03-9377659/8 | מאיר/09-7471059/962 | כרמל/04-9932777

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מידע נוסף על הבדיקה ניתן למצוא ב:

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Gene	Disease	
PSMB8	Autoinflammation, lipodystrophy, and dermatosis syndrome	372
PTPN23	Developmental delay	373
PUS1	Mitochondrial myopathy and sideroblastic anemia 1	374
RAB27A	Griscelli syndrome, type 2	375
RAB28	Cone-rod dystrophy 18	376
RAG1	Severe combined immunodeficiency, RAG1-related	377
RAG2	Severe combined immunodeficiency, RAG2-related	378
RAPSN	Myasthenic syndrome (CMS4C)	379
RAPSN	Severe combined immunodeficiency, RAG2-related	380
RARS2	Pontocerebellar hypoplasia, type 6	381
RDH12	Leber congenital amaurosis 13	382
RECQL2	Werner syndrome	383
RF5	Bare lymphocyte syndrome, type II (SCID)	384
RIN2	Macrocephaly, alopecia, cutis laxa, and scoliosis	385
RNASEH2B	Aicardi-Goutieres syndrome 2	386
ROGDI	Kohlschütter-Tonz syndrome	387
RP1	Retinitis pigmentosa 1	388
RPE65	Leber congenital amaurosis 2	389
RPGRIP1	Cone-rod dystrophy 13	390
RPGRIP1L	Meckel syndrome 5	391
RRM2B	Mitochondrial DNA depletion syndrome 8	392
RSPH9	Ciliary dyskinesia, primary, 12	393
RTEL1	Dyskeratosis congenita	394
RYR1	Minicore myopathy with external mitochondrial membrane protein	395
SAMD9	Tumoral calcinosis, familial, normophosphatemic	396
SAMHD1	Aicardi Goutieres syndrome	397
SARS2	Hyperuricemia	398
SCAPER	Retinitis pigmentosa with intellectual disability	399
SCN9A	Insensitivity to pain, congenital, with anhidrosis (CIPA)	400
SCNN1A	Pseudohypoadosteronism type I - SCNN1A gene	401
SCNN1B	Pseudohypoadosteronism type I - SCNN1B gene	402
SDHA	Cardiomyopathy, dilated, 1GG neonatal isolated	403
SEC23B	Dyserythropoietic anemia, congenital, type II	404
SERAC1	3-methylglutaconic aciduria (MEGDEL)	405
SGCG	Muscular dystrophy, limb-girdle, type 2C	406
SGSH	Mucopolysaccharidosis type IIIA (Sanfilippo A)	407
SLC12A3	Barter Syndrome, Gitelman Variant	408
SLC17A5	Sialic acid storage disorder, infantile (ISSD)	409
SLC18A3	Myasthenia gravis, congenital	410
SLC19A2	Thiamine-responsive megaloblastic anemia syndrome	411
SLC1A4	Spastic tetraplegia	412
SLC22A5	Carnitine deficiency, systemic primary	413
SLC25A15	Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome	414
SLC25A1	Combined D-2- and L-2-hydroxyglutaric aciduria	415
SLC25A20	Carnitine-acylcarnitine translocase deficiency - CACT	416
SLC26A3	Congenital chloride diarrhea (CLD)	417
SLC26A4	Pendred syndrome	418
SLC29A3	Histiocytosis-lymphadenopathy plus syndrome	419
SLC2A2	Fanconi-Bickel syndrome	420
SLC30A9	Birk-Landau-Perez cerebro-renal syndrome	421
SLC35A3	Arthrogryposis, mental retardation, and seizures	422
SLC35C1	Congenital disorder of glycosylation, type IIc	423
SLC37A4	Glycogen storage disease Ib	424

Gene	Disease	
NGLY1	Congenital disorder of deglycosylation	315
NNT	Glucocorticoid deficiency 4	316
NPC1	Niemann-Pick disease type C1	317
NPHP1	Joubert syndrome	318
NPHS1	Nephrotic syndrome type 1	319
NPHS2	Nephrotic syndrome	320
NRL	Retinitis pigmentosa 27	321
NTRK1	Insensitivity to pain, congenital, with anhidrosis (CIPA)	322
NUP62	Striatonigral degeneration (IBSN)	323
OAT	Gyrate atrophy	324
OCA2	Albinism, oculocutaneous, type II	325
OPA3	3-methylglutaconic aciduria, type III - Costeff	326
OTC	Ornithine transcarbamylase deficiency	327
OTOA	Deafness, Autosomal Recessive 22	328
OTOF	Deafness, Autosomal Recessive 9	329
P3H2	Myopia	330
PAH	Phenylketonuria	331
PARK2	Parkinson disease, early onset	332
PAX7	Myopathy, congenital, progressive, with scoliosis	333
PCCA	Propionic acidemia, PCCA-related	334
PCCB	Propionic acidemia, PCCB-related	335
PCHD12	Microcephaly, (MISSBC)	336
PCHD15	Usher syndrome, type 1F	337
PK1	Phosphoenolpyruvate carboxykinase-1, cytosolic, deficiency	338
PCNT	Microcephalic osteodysplastic primordial dwarfism, type II	339
PDE6A	Retinitis pigmentosa 43	340
PDE6B	Retinitis pigmentosa-40	341
PDE6G	Retinitis pigmentosa 57	342
PEPD	Prolidase deficiency	343
PEX1	Peroxisome biogenesis disorder 1A (Zellweger)	344
PEX2	Peroxisome biogenesis disorder 5A (Zellweger)	345
PEX6	Peroxisome biogenesis disorder 4B (Zellweger syndrome)	346
PEX7	Rhizomelic chondrodysplasia punctata type 1	347
PGAP3	Hyperphosphatasia with mental retardation syndrome 4	348
PGM1	Congenital disorder of glycosylation, type II	349
PHGDH	Phosphoglycerate dehydrogenase deficiency	350
PHKG2	Glycogen storage disease IXc	351
PHYH	Refsum disease	352
PIGN	Multiple congenital anomalies-hypotonia-seizures syndrome 1	353
PIGT	Multiple congenital anomalies-hypotonia-seizures syndrome 3	354
PIP5K1C	Lethal congenital contractural syndrome 3	355
PJKV	Deafness, Autosomal Recessive 59	356
PKHD1	Polycystic kidney & hepatic disease, PKHD1-related	357
PLA2G6	Infantile neuroaxonal dystrophy 1 (INAD)	358
PLAA	Neurodevelopmental disorder	359
PLEKHG2	Leukodystrophy and acquired microcephaly with or without dystonia	360
PMM2	Congenital disorder of glycosylation Ia	361
POC1A	Short stature, onychodysplasia	362
POMGNT2	Muscular dystrophy-dystroglycanopathy, type A, 8	363
POMT1	Walker-Warburg Syndrome, type A, 1	364
POMT2	Walker-Warburg Syndrome, type A, 2	365
POR	Antley-Bixler syndrome (ABS1)	366
PP1B	Osteogenesis imperfecta, type IX	367
PPP1R13L	Cardio-Cutaneous Syndrome DCM	368
PRCD	Ceroid lipofuscinosis, neuronal, 1	369
PRICKLE1	Retinitis pigmentosa 36	370
PRICKLE1	Epilepsy, progressive myoclonic 1B	371

Gene	Disease	Gene	Disease
JAK3	SCID, autosomal recessive, T-negative/B-positive type	FKRP	Muscular dystrophy-dystroglycanopathy, type C, 5
KCNJ10	SESAME syndrome	FKTN	Walker Warburg syndrome
KIAA1279	Goldberg-Shprintzen megacolon syndrome	FLT4	Autosomal Recessive Hereditary Lymphedema
KIF1C	Spastic ataxia 2, Autosomal Recessive	FOXRED1	Mitochondrial encephalomyopathy complex I deficiency
KIZ	Retinitis pigmentosa 69	FRMD4A	Microcephaly intellectual disability and dysmorphism
KLHL40	Nemaline myopathy 8, Autosomal Recessive	FTO	Growth retardation
KREMEN1	Ectodermal dysplasia	G6PC3	Neutropenia, severe congenital 4, Autosomal Recessive
KRT14	Epidermolysis bullosa simplex	G6PC	Glycogen storage disease Ia - GDS1a
KY	Myopathy, myofibrillar, 7	GAA	Pompe (Glycogen storage disease type II)
LAMA2	Muscular dystrophy, LAMA2 deficiency	GALC	Krabbe disease
LAMA3	Laryngopyochocutaneous Syndrome	GALNT3	Tumoral calcinosis, hyperphosphatemic, familial
LAMB3	Epidermolysis bullosa, junctional, non-Herlitz type	GALT	Galactosemia
LAMC2	Epidermolysis bullosa, junctional, Herlitz type	GAN	Giant axonal neuropathy 1
LCA5	Leber congenital amaurosis 5	GATC	Hypertrophic Cardiomyopathy
LIFR	Stuve-Wiedemann syndrome	GATM	Cerebral creatine deficiency syndrome 3
LIPA	Wolman disease	GBA	Gaucher disease, type I
LOXHD1	Deafness, Autosomal Recessive 77	GDH	Glutaricaciduria type I
LRBA	Immunodeficiency, common variable, 8, with autoimmunity	GH1	Growth hormone deficiency, isolated, type IA
MAK	Retinitis pigmentosa 62	GHR	Laron dwarfism
MAN1B1	Mental retardation, Autosomal Recessive 15	GHRHR	Growth hormone deficiency, isolated, type IB
MATN3	Spondyloepimetaphyseal dysplasia	GIPC3	Deafness, autosomal recessive 15
MCIDAS	Mucopolysaccharidosis type IV - ML4	GJB2	Deafness, autosomal recessive 1A
MCOLN1	Mucopolysaccharidosis type IV - ML4	GJB6	Deafness, Autosomal Recessive 1B
MCCR	Dystonia (DYTOABG)	GLB1	GM1-gangliosidosis, type I
MED17	Microcephaly (CCA)	GLDC	Glycine encephalopathy
MED25	Basel-Vanagaite-Smirin-Yosef syndrome	GLRA1	Hyperkplexia
MEGF10	Myopathy	GMPPA	Alacrima, achalasia, and mental retardation syndrome
MERTK	Retinitis pigmentosa 38	GMPPB	Muscular dystrophy-dystroglycanopathy
MFSD8	Ceroid lipofuscinosis, neuronal, 7	GNP	Hereditary inclusion body myopathy (HIBM)
MKS1	Meckel syndrome 1	GNPTAB	Mucopolysaccharidosis III alpha/beta
MLC1	Megalencephalic leukoencephalopathy	GNPTG	Mucopolysaccharidosis III gamma
MLPH	Griscelli syndrome, type 3	GPC6	Omdysplasia 1
MMACHC	Methylmalonic aciduria and homocystinuria, cblC type	GPSM2	Chudley-McCullough syndrome
MOC51	Molybdenum cofactor deficiency A	GRHPR	Hyperoxaluria, primary, type II
MOC52	Molybdenum cofactor deficiency Type B	GUCY2D	Leber congenital amaurosis 1, Cone-rod dystrophy 6
MPDU1	Congenital disorder of glycosylation, type If	HACD1	Congenital myopathy
MPL	Thrombocytopenia, congenital amegakaryocytic	HADHA	Long-Chain hydroxyacyl-CoA dehydrogenase deficiency
MPV17	Mitochondrial DNA depletion syndrome 6	HAX1	Kostmann disease
MRE11A	Ataxia Telangiectasia like disorder	HBB	Hemoglobinopathies
MTHFR	Homocystinuria due to MTHFR deficiency	HEXA	Tay Sachs disease
MTPP	Abetalipoproteinemia ABL	HEXB	Sandhoff disease, infantile, juvenile, and adult forms
MUT	Methylmalonic acidemia, mut(0) type	HGD	Alcaptonuria
MVK	Hyper-IgD syndrome	HGSNAT	Retinitis pigmentosa 73
MYBPC1	Lethal congenital contracture syndrome 4	HIKESHI	Leukodystrophy, optic atrophy
MYH2	Proximal myopathy and ophthalmoplegia	HMGCL	HMG-CoA lyase deficiency
MYO15A	Deafness, Autosomal Recessive 3	HOGA1	Hyperoxaluria, primary, type III
MYO7A	Usher syndrome, type 1B	HPD	Thyrosinemia type III
NAGLU	Mucopolysaccharidosis type IIIB (Sanfilippo B)	HPS1	Hermansky-Pudlak syndrome 1
NARS2	Combined oxidative phosphorylation deficiency 24	HPS3	Hermansky-Pudlak syndrome 3
NBEAL2	Gray platelet syndrome	HPS6	Hermansky-Pudlak syndrome 6
NCF1	Chronic granulomatous disease due to deficiency of NCF-1	HSPD1	Leukodystrophy, hypomyelinating, 4, HLD4 (HSP60)
NCF2	Chronic granulomatous disease due to deficiency of NCF-2	IBA57	Spastic paraplegia 74, Autosomal Recessive
NDUFA11	Mitochondrial complex I deficiency - NDUFA11 gene	IDUA	Mucopolysaccharidosis Type IH - Hurler syndrome
NDUFAF5	Mitochondrial complex I deficiency - NDUFAF5 gene	IGHMBP2	Neuronopathy, distal hereditary motor, type VI
NDUFS2	Mitochondrial complex I deficiency-NDUFS2 gene	IL10RA	Inflammatory bowel disease 28
NDUFS4	Leigh syndrome	INSR	Leprechaunism, Donohue syndrome
NDUFS6	Mitochondrial complex I deficiency - NDUFS6 gene	INVS	Nephronophthisis 2, infantile
NEB	Nemaline myopathy 2	ISPD	Muscular dystrophy-dystroglycanopathy (MDDGA7)
NECTIN1	Zlotogora-Ogur syndrome	ITGA2B	Glanzmann thrombasthenia, ITGA2B-related
		ITGB3	Glanzmann thrombasthenia, ITGB3-related
		ITGB4	Carmi syndrome
		ITK	Lymphoproliferative syndrome
		IVD	Isovaleric acidemia

Gene	Disease	Gene	Disease
CYP11A1	Adrenal insufficiency (P450sc)	CYP11B2	Hypoadosteronism, congenital, due to CMO II deficiency
CYP11B1	Glaucoma 3A	CYP27A1	Cerebrotendinous xanthomatosis
CYP27A2	Congenital recessive ichthyosis (CRI)	CYP4V2	Bietti crystalline corneoretinal dystrophy
CYP7B1	Spastic paraplegia 5A, Autosomal Recessive	DAG1	Muscular dystrophy-dystroglycanopathy, type A, 9
DARS2	Leukoencephalopathy, LBSL	DBT	Maple syrup urine disease, type II
DCAF17	Woodhouse-Sakati syndrome	DCLRE1C	Severe combined immunodeficiency, Athabaskan type
DDR2	Spondyloepimetaphyseal dysplasia, short limb-hand type	DDR2	Spondyloepimetaphyseal dysplasia (Shohat-type)
DDR2	Spondyloepimetaphyseal dysplasia (Shohat-type)	DDX11	Warsaw breakage syndrome
DDGK1	Diarrhea 7, congenital	DGAT1	Diarrhea 7, congenital
DGUOK	Mitochondrial DNA depletion syndrome	DHCR24	Desmosterolosis
DHCR7	Smith Lemli Opitz syndrome	DHDDS	Retinitis pigmentosa 59
DLD	Dihydroliipoamide Dehydrogenase Deficiency	DLL3	Spondylocostal dysostosis 1, Autosomal Recessive
DNAH11	Ciliary dyskinesia, primary, 7	DNAH5	Ciliary dyskinesia (CILD3/PCD)
DNAI1	Ciliary dyskinesia, primary, 1	DNAI2	Ciliary dyskinesia, primary, 9
DNAI2	Ciliary dyskinesia, primary, 9	DNAL1	Ciliary dyskinesia, primary, 16
DOCK8	Hyper-IgE recurrent infection syndrome	DOLK	Congenital disorder of glycosylation, type Im
DSG1	Erythroderma (EPKHE)	DST	Epidermolysis bullosa simplex, Autosomal Recessive 2
DST	Epidermolysis bullosa simplex, Autosomal Recessive 2	DSTYK	Spastic paraplegia, complicated
DYSF	Muscular dystrophy, limb-girdle, type 2B	ECHS1	Mitochondrial short-chain enoyl-CoA hydratase 1 deficiency
ECM1	Urbach-Wiethe disease	EDAR	Ectodermal dysplasia 10B
ELP1	Dysautonomia, familial	EOGT	Adams-Oliver syndrome 4
EPG5	Vici syndrome	EPM2A	Epilepsy, progressive myoclonic 2A (Lafora)
ERBB3	Lethal congenital contractural syndrome 2	ERCC2	Xeroderma pigmentosum, group D
ERCC2	Xeroderma pigmentosum, group D	ERCC5	Xeroderma pigmentosum/Cockayne syndrome, type B
ERCC5	Xeroderma pigmentosum/Cockayne syndrome, type B	ERCC8	Cockayne syndrome, type A
ESOC2	Robert's-SC phocomelia syndrome	ETFDH	Glutaric acidemia IIC
ETFDH	Glutaric acidemia IIC	EXOSC3	Pontocerebellar hypoplasia, type 1B
EXOSC3	Pontocerebellar hypoplasia, type 1B	EXOSC8	Pontocerebellar hypoplasia, type 1C
EYS	Retinitis pigmentosa 25	F7	Factor VII deficiency
FA2H	Spastic paraplegia 35, Autosomal Recessive	FAH	Tyrosinemia, type I
FAH	Tyrosinemia, type I	FAM161A	Retinitis pigmentosa 28
FAM161A	Retinitis pigmentosa 28	FAM20A	Amelogenesis imperfecta, type IG (enamel-renal syndrome)
FAM20A	Amelogenesis imperfecta, type IG (enamel-renal syndrome)	FANCA	Fanconi anemia, complementation group A
FANCA	Fanconi anemia, complementation group A	FANCC	Fanconi anemia, complementation group C
FANCC	Fanconi anemia, complementation group C	FANCG	Fanconi Anemia - complementation group G
FANCG	Fanconi Anemia - complementation group G	FDX1L	Mitochondrial muscle myopathy
FDX1L	Mitochondrial muscle myopathy	FERMT1	Kindler syndrome
FERMT1	Kindler syndrome	FGF	Afibrogenemia congenital
FGF	Afibrogenemia congenital	FH	Fumarate deficiency, leiomyomatosis and renal cell cancer
FH	Fumarate deficiency, leiomyomatosis and renal cell cancer	FKBP10	Osteogenesis imperfecta, type XI

Gene	Disease	Gene	Disease
C21orf59	Ciliary dyskinesia, primary, 26	C2ORF71	Retinitis pigmentosa 54
C8orf37	Retinitis pigmentosa 64	CAPN3	Muscular dystrophy, limb-girdle, type 2A
CASQ2	Ventricular tachycardia, catecholaminergic polymorphic, 2	CBS	Homocystinuria, thrombosis, hyperhomocysteinemic
CC2D1A	Mental retardation, Autosomal Recessive 3 - MRT3	CC2D2A	Mental retardation, Autosomal Recessive 3 - MRT3
CC2D2A	Mental retardation, Autosomal Recessive 3 - MRT3	CCDC114	Ciliary dyskinesia, primary, 20
CCDC174	Birk Volodarsky PMR Syndrome	CCDC65	Ciliary dyskinesia, primary, 27
CCDC88C	Hydrocephalus, nonsyndromic, Autosomal Recessive	CCNO	Ciliary dyskinesia, primary, 29
CCNO	Ciliary dyskinesia, primary, 29	CD59	Hemolytic anemia
CDAN1	Dyserythropoietic anemia, congenital, type Ia	CDH23	Usher Syndrome Type ID
CDK10	Al Kaysi syndrome	CDK5	Lisencephaly 7 with cerebellar hypoplasia
CEACAM16	Deafness, autosomal recessive	CECR1	Adenosine deaminase 2 deficiency
CECR1	Adenosine deaminase 2 deficiency	CENPJ	Polyarteritis nodosa, childhood-onset Microcephaly, primary, Autosomal Recessive
CENPJ	Polyarteritis nodosa, childhood-onset Microcephaly, primary, Autosomal Recessive	CEP104	Joubert syndrome (JBTS)
CEP152	Microcephaly 9, primary, Autosomal Recessive	CEP290	Meckel syndrome 4
CERKL	Retinitis pigmentosa 26	CFTR	Cystic fibrosis
CFTR	Cystic fibrosis	CHRNAE	Myasthenic syndrome, congenital, 4B, fast-channel
CHRNAE	Myasthenic syndrome, congenital, 4B, fast-channel	CLCN1	Myotonia congenita, Autosomal Recessive
CLCN1	Myotonia congenita, Autosomal Recessive	CLCN1	Myotonia congenita, Autosomal Recessive
CLCN5	Proteinuria	CLCNKB	Bartter syndrome, type 3 and Gitelman syndrome
CLN5	Proteinuria	CLN6	Ceroid lipofuscinosis, neuronal, 5
CLN6	Ceroid lipofuscinosis, neuronal, 5	CLN8	Neuronal ceroid lipofuscinosis type 8
CLN8	Neuronal ceroid lipofuscinosis type 8	CLRN1	Usher syndrome, type 3A
CLRN1	Usher syndrome, type 3A	CNGA1	Retinitis pigmentosa 49
CNGA1	Retinitis pigmentosa 49	CNGA3	Achromatopsia-2 - total color blindness
CNGA3	Achromatopsia-2 - total color blindness	CNGB1	Retinitis pigmentosa 45
CNGB1	Retinitis pigmentosa 45	CNGB3	Achromatopsia-3, macular degeneration, juvenile
CNGB3	Achromatopsia-3, macular degeneration, juvenile	CNMM4	Jalili syndrome
CNMM4	Jalili syndrome	Lethal congenital contracture syndrome 7	
CNTNAP1	Lethal congenital contracture syndrome 7	COL11A2	Otospondyloymegeaepiphyseal dysplasia (ZW)
COL11A2	Otospondyloymegeaepiphyseal dysplasia (ZW)	COL17A1	Epidermolysis bullosa, junctional
COL17A1	Epidermolysis bullosa, junctional	COL4A3	Alport syndrome, COL4A3-Related
COL4A3	Alport syndrome, COL4A3-Related	COL4A4	Alport syndrome, COL4A4-Related
COL4A4	Alport syndrome, COL4A4-Related	COL4A5	Alport syndrome, COL4A5-Related
COL4A5	Alport syndrome, COL4A5-Related	COL7A1	Dystrophic epidermolysis bullosa
COL7A1	Dystrophic epidermolysis bullosa	COLEC11	3MC syndrome 2
COLEC11	3MC syndrome 2	COLQ	Myasthenic syndrome, congenital, 5
COLQ	Myasthenic syndrome, congenital, 5	COQ4	Coenzyme Q10 deficiency, primary, 7
COQ4	Coenzyme Q10 deficiency, primary, 7	CP51	Carbamoylphosphate synthetase I deficiency
CP51	Carbamoylphosphate synthetase I deficiency	CPT1A	Carnitine palmitoyltransferase 1 deficiency
CPT1A	Carnitine palmitoyltransferase 1 deficiency	CPT2	CPT deficiency, hepatic, type II
CPT2	CPT deficiency, hepatic, type II	CRB1	Leber congenital amaurosis 8
CRB1	Leber congenital amaurosis 8	CRB2	Ventriculomegaly with cystic kidney disease
CRB2	Ventriculomegaly with cystic kidney disease	CRTAP	Osteogenesis imperfecta, type VII
CRTAP	Osteogenesis imperfecta, type VII	CSTA	Exfoliative ichthyosis (PSS4)
CSTA	Exfoliative ichthyosis (PSS4)	CTNS	Cystinosis, CTNS-related
CTNS	Cystinosis, CTNS-related	CTSC	Haim-Munk syndrome
CTSC	Haim-Munk syndrome	CYBB	Chronic granulomatous disease, X-linked

עלות בדיקת MyScreen משתלמת יותר

עלות הבדיקה נמוכה בהשוואה לבדיקות שמציעות מעבדות פרטיות בארץ ובחו"ל. לבריור פרטים יש לפנות למכונים הגנטיים המבצעים את הבדיקה.

- ### למי מומלץ לבצע את הבדיקה?
- זוגות המתכננים הריון ו/או הקמת משפחה בעתיד, כולל זוגות שכבר נבדקו בעבר לבדיקות גנטיות אחרות
 - זוגות המצפים לתינוק
 - זוגות בהם אחד מבני הזוג או שניהם נמצאו כנשאים של תסמונת גנטית
 - בעלי היסטוריה משפחתית של תסמונת גנטית המעוניינים להעריך את גורמי הסיכון שלהם לפני תכנון משפחה.

מה משמעות תוצאות הבדיקה?

אם נמצא שאחד מבני הזוג הוא נשא של מוטציה מסתמלת למחלה ספציפית מצאנו שבבדיקה, והשני שנבדק במקביל לא נשא למוטציות שבפאנל, הסיכון הסטטיסטי להשנות אותה תסמונת ייחשב כנמוך. אם שני בני הזוג נמצאו נשאים לאותה תסמונת תופנו ליעוץ במכון הגנטי בו ייתן הסבר מקיף על האפשרויות העומדות בפניהם לצורך אבחון מדויק ואמין של המחלה בעובר (בבדיקת סיסי שיליה, דיקור מי שפיר או אבחון טרום השרשית).

רשימת המחלות הנוכלות בבדיקה:

Gene	Disease	Gene	Disease
ANO5	Limb-girdle muscular dystrophy	2p21	Hypotonia-cystinuria syndrome
AP4B1	Spastic paraplegia 47, Autosomal Recessive	ABCA12	Ichthyosis, congenital, Autosomal Recessive 4A
APTX	Ataxia (EAOH)	ABCA3	Congenital surfactant deficiency (SMDP3)
AQP2	Diabetes insipidus, nephrogenic	ABCA4	Cone-rod dystrophy 3
ARFGF2	Periventricular heterotopia with microcephaly	ABCB11	Cholestasis, progressive familial intrahepatic type 2
ARHGDI2	Nephrotic syndrome, type 8	ABCC8	Hyperinsulinemic hypoglycemia, familial, 1 (PHHI/HHF1)
ARL6	Bardet-Biedl syndrome 3	ABCD1	X-linked adrenoleukodystrophy
ARSA	Metachromatic leukodystrophy - MLD	AHD5	Chanarin-Dorfman syndrome
ARSG	Usher syndrome, type IV	ACADM	Medium-chain Acyl-CoA dehydrogenase deficiency
ASL	Argininosuccinic aciduria	ACADVL	Acyl-CoA dehydrogenase, very long-chain, VLCAD deficiency
ASNS	Asparagine synthetase deficiency	ACO2	Infantile cerebellar-retinal degeneration
ASPA	Canavan Disease	ACP5	Spondyloenchondrodysplasia with immune dysregulation
ASS1	Citrullinemia, classic	ACSF3	Combined malonic and methylmalonic aciduria
ATM	Ataxia-telangiectasia	ADA	Severe combined immunodeficiency due to ADA deficiency
ATP6VOA2	Cutis laxa, Autosomal Recessive, type IIA	ADAM9	Cone-rod dystrophy 9
ATP7B	Wilson disease	ADAMTS2	Ehlers Danlos syndrome, type VIIC
ATP8B1	Cholestasis, progressive familial intrahepatic 1	ADGRG1	Bilateral Frontoparietal Polymicrogyria (BFP)
AVP	Familial neurohypophyseal diabetes insipidus	ADGRV1	Usher syndrome, type 2C
B3GALNT2	Muscular dystrophy-dystroglycanopathy, type A, 11	AGA	Aspartylglucosaminuria
B4GALT1	Congenital disorder of glycosylation, type IId	AGL	Glycogen storage disease III
BBS10	Bardet-Biedl syndrome 10	AGXT	Hyperoxaluria, primary, type I
BBS1	Bardet-Biedl syndrome 1	AH1	Joubert syndrome-3
BBS2	Bardet-Biedl syndrome 2	AIMP1	Leukodystrophy, hypomyelinating, 3
BBS4	Bardet-Biedl syndrome 4	AIP1	Leber congenital amaurosis 4
BBS7	Bardet-Biedl syndrome 7	AIRE	APS-1
BBS9	Bardet-Biedl syndrome 9	ALDH1A3	Microphthalmia, isolated 8
BCKDHA	Maple syrup urine disease, type Ia	ALDH7A1	Epilepsy, pyridoxine-dependent
BCKDHB	Maple syrup urine disease, type Ib	ALDOB	Fructose intolerance
BLM	Bloom syndrome	ALMS1	Alstrom syndrome
BMPEP	Diaphanospondylyodysostosis	ALPL	Hypophosphatasia, infantile
BMPLR1B	Brachydactyly type A2	AMT	Glycine encephalopathy, AMT-related
BNPD	Bartter syndrome, type 4a		
BTD	Biotinidase deficiency		
C12ORF65	Spastic paraplegia 55, Autosomal Recessive		