



Neurology panel

AARS	AGTPBP1	ANTXR1	ASNS	B9D2	CACNA1E
AARS2	AHCY	AP1S2	ASPA	BAG3	CACNA1G
ABAT	AHI1	AP3B1	ASPM	BCKDHA	CACNA1S
ABCA7	AIFM1	AP3B2	ASXL1	BCKDHB	CACNA2D2
ABCC9	AIMP1	AP4B1	ASXL2	BCKDK	CACNB4
ABCD1	AIMP2	AP4E1	ASXL3	BCL11A	CACNG2
ABHD12	AKT1	AP4M1	ATAD3A	BCS1L	CAD
ABHD5	AKT3	AP4S1	ATCAY	BEAN1	CALR3
ACADVL	ALDH18A1	AP5Z1	ATL1	BICD2	CAMK2A
ACO2	ALDH3A2	APC2	ATL3	BIN1	CAMK2B
ACOX1	ALDH5A1	APOA1	ATM	BOLA3	CAMTA1
ACSL4	ALDH7A1	APOE	ATP13A2	BRAF	CAPN1
ACTA1	ALDOA	APP	ATP1A1	BRAT1	CAPN3
ACTB	ALG13	APTX	ATP1A2	BRD4	CARS2
ACTC1	ALG14	ARFGEF2	ATP1A3	BRIP1	CASC5
ACTG1	ALG2	ARG1	ATP2A1	BRWD3	CASK
ACTL6B	ALMS1	ARHGEF10	ATP2A2	BSCL2	CAV3
ACTN2	ALS2	ARHGEF15	ATP2B3	BTD	CC2D1A
ACY1	ALX1	ARHGEF6	ATP5A1	C10orf2	CC2D2A
ADAM22	ALX3	ARHGEF9	ATP5E	C11orf73	CCDC78
ADAR	ALX4	ARID1A	ATP6AP2	C12orf4	CCDC88C
ADCK3	AMPD2	ARID1B	ATP7A	C12orf57	CCM2
ADCY5	AMT	ARID2	ATP7B	C12orf65	CCND2
ADK	ANG	ARL13B	ATP8A2	C19orf12	CCT5
ADNP	ANK3	ARL6IP1	ATR	C5orf42	CD59
ADPRHL2	ANKLE2	ARMC9	ATRX	C9orf72	CD96
ADSL	ANKRD1	ARSA	ATXN8OS	CA8	CDH15
AFG3L2	ANKRD11	ARSI	B3GALNT2	CACNA1A	CDK11A
AGA	ANO10	ARV1	B3GNT6	CACNA1B	CDK5
AGL	ANO3	ARX	B4GALNT1	CACNA1C	CDK5RAP2
AGRN	ANO5	ASAH1	B9D1	CACNA1D	CDK6

טלפון: 02-6779197

פקס: 02-6777499

דוא"ל: elpeleg@hadassah.org.il

קרית הדסה, ת.ד. 12000,
ירושלים 91120

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CDKL5	CIT	COQ2	CTNNB1	DHCR24	DSC2
CDON	CIZ1	COQ4	CTNND2	DHCR7	DSG2
CENPE	CLCN1	COQ5	CTSA	DHFR	DSP
CENPJ	CLCN2	COQ6	CTSD	DHTKD1	DST
CEP104	CLCN4	COQ7	CUL4B	DIS3L2	DTNA
CEP135	CLIC2	COQ9	CUX2	DKC1	DYNC1H1
CEP152	CLN3	COX10	CWF19L1	DLAT	DYRK1A
CEP290	CLN5	COX14	CYB5R3	DLD	DYSF
CEP41	CLN6	COX15	CYC1	DLG3	EARS2
CEP63	CLN8	COX20	CYFIP2	DMD	EBF3
CERS1	CLP1	COX6A1	CYP24A1	DNA2	EBP
CFL2	CLTC	COX6B1	CYP27A1	DNAJB2	ECHS1
CHAT	CNKSR2	CP	CYP27B1	DNAJB6	EDN3
CHCHD10	CNPY3	CPA6	CYP2U1	DNAJC12	EDNRB
CHCHD2	CNTN1	CPLX1	CYP7B1	DNAJC19	EED
CHD2	CNTNAP2	CPOX	D2HGDH	DNAJC3	EEF1A2
CHD3	COA7	CPT1A	DAG1	DNAJC5	EEF2
CHD7	COASY	CPT1C	DARS	DNAJC6	EFHC1
CHD8	COG1	CPT2	DARS2	DNM1	EFTUD2
CHKB	COG4	CRADD	DBT	DNM1L	EGR2
CHMP1A	COG5	CRBN	DCAF17	DNM2	EHMT1
CHMP2B	COG6	CREBBP	DCAF8	DNMT1	EIF2B1
CHRM2	COG7	CRYAB	DCTN1	DNMT3A	EIF2B2
CHRNA1	COG8	CSF1R	DCX	DOCK3	EIF2B3
CHRNA2	COL12A1	CSNK2A1	DDC	DOCK7	EIF2B4
CHRNA4	COL13A1	CSNK2B	DDHD1	DOK7	EIF2B5
CHRN1	COL4A1	CSPP1	DDHD2	DOLK	EIF4E
CHRN2	COL4A2	CSRP3	DDOST	DONSON	EIF4G1
CHRND	COL4A3BP	CSTB	DDX3X	DPAGT1	ELAC2
CHRNE	COL6A1	CTC1	DENND5A	DPM1	ELK1
CHRNA	COL6A2	CTDP1	DEPDC5	DPM2	ELOVL4
CHSY1	COL6A3	CTF1	DES	DPM3	ELOVL5
CISD2	COLQ	CTNNA3	DGUOK	DRD2	EMC1

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EMD	FASTKD2	FREM1	GDAP1	GPR56	HESX1
EMX2	FAT4	FRMPD4	GDI1	GPSM2	HEXA
ENO3	FBLN5	FRRS1L	GEMIN4	GPT2	HEXB
ENTPD1	FBXL4	FTL	GFAP	GRIA3	HGSNAT
EOMES	FBXO11	FTO	GFM1	GRIA4	HINT1
EP300	FBXO38	FTSJ1	GFM2	GRID2	HIST1H1E
EPB41L1	FBXO7	FUCA1	GFPT1	GRIK2	HK1
EPM2A	FGD1	FUS	GIGYF2	GRIN1	HLCS
EPRS	FGD4	FXN	GJB1	GRIN2A	HMBS
ERBB4	FGF12	G6PC	GJC2	GRIN2B	HNRNPA1
ERCC1	FGF14	GAA	GK	GRIN2D	HNRNPA2B1
ERCC5	FGFR1	GABBR2	GLA	GRIP1	HNRNPDL
ERCC6	FGFR2	GABRA1	GLB1	GRM1	HNRNPU
ERCC8	FH	GABRB1	GLDC	GRN	HOXA1
ERLIN1	FHL1	GABRB2	GLI2	GSS	HPCA
ERLIN2	FHL2	GABRB3	GLRA1	GTPBP3	HPD
ERMARD	FIBP	GABRD	GLRB	GUF1	HPRT1
ETFA	FIG4	GABRG2	GLUD1	GUSB	HSD17B10
ETFB	FKBP14	GAD1	GLUL	GYG1	HSD17B4
ETFDH	FKRP	GALC	GM2A	GYS1	HSPB1
ETHE1	FKTN	GAMT	GMPPB	HACE1	HSPB3
EXOSC3	FLNA	GAN	GNAL	HADHA	HSPB8
EXOSC8	FLNC	GARS	GNAO1	HADHB	HSPD1
EYA4	FLRT1	GATA4	GNB1	HARS	HTRA1
EZH2	FLVCR1	GATA6	GNB4	HARS2	HTT
FA2H	FLVCR2	GATAD1	GNE	HCN1	HUWE1
FADD	FMR1	GATM	GNS	HCN2	IARS2
FAM126A	FOLR1	GBA	GOLGA2	HCN4	IBA57
FAM134B	FOXG1	GBA2	GOSR2	HDAC4	ICK
FAM134B	FOXH1	GBE1	GPAA1	HDAC8	IDH2
FANCB	FOXP1	GCDH	GPC3	HECW2	IDS
FAR1	FOXP2	GCH1	GPHN	HEPACAM	IDUA
FARS2	FOXRED1	GCSH	GPI	HERC1	IER3IP1

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IFIH1	KCNB1	KIF14	LGI1	MCEE	MPC1
IGBP1	KCNC1	KIF1A	LHX4	MCM3AP	MPDU1
IGF2	KCNC3	KIF1B	LIAS	MCOLN1	MPDZ
IGHMBP2	KCNE1L	KIF1C	LIMS2	MCPH1	MPV17
IKBKAP	KCNH1	KIF2A	LINS	MDH2	MPZ
IL11RA	KCNH2	KIF5A	LIPT2	MECP2	MRPL3
IL1RAPL1	KCNH5	KIF5C	LITAF	MECR	MRPL44
ILK	KCNJ1	KIF7	LMBRD1	MED12	MRPS16
INF2	KCNJ10	KIRREL3	LMNA	MED17	MRPS22
INPP5E	KCNJ11	KLF8	LMNB1	MED23	MSX2
INPP5K	KCNJ2	KLHL40	LMNB2	MED25	MTFMT
IQSEC2	KCNK9	KLHL41	LMOD3	MEF2C	MTHFR
IRF2BPL	KCNMA1	KMT2B	LONP1	MEGF10	MTHFS
IRX5	KCNQ2	KMT2D	LPIN1	MFN2	MTM1
ISCA2	KCNQ3	KMT2E	LRP4	MFSD2A	MTMR2
ISPD	KCNQ5	KPTN	LRPPRC	MFSD8	MTO1
ITGA7	KCNT1	KRAS	LRRRC10	MGAT2	MTOR
ITM2B	KCNT2	KRIT1	LRRK2	MGME1	MTPAP
ITPA	KCTD17	L1CAM	LRSAM1	MID1	MTR
ITPR1	KCTD3	L2HGDH	LYRM4	MIPEP	MTRR
JMJD1C	KCTD7	LAMA1	LYRM7	MKKS	MUSK
JPH2	KDM1A	LAMA2	MACF1	MKS1	MUT
JRK	KDM5C	LAMA4	MAG	MLC1	MVK
JUP	KDM6A	LAMB1	MAN1B1	MLYCD	MYBPC3
KANK1	KIAA0196	LAMB2	MAOA	MMAA	MYCN
KANSL1	KIAA0226	LAMC3	MAPK10	MMAB	MYF6
KARS	KIAA0556	LAMP2	MAPT	MMACHC	MYH2
KAT6A	KIAA0586	LARGE	MARS	MMADHC	MYH6
KAT6B	KIAA1109	LARS2	MARS2	MME	MYH7
KATNB1	KIAA1279	LAS1L	MATR3	MOCS1	MYL2
KBTBD13	KIAA2022	LBR	MBD5	MOCS2	MYL3
KCNA1	KIDINS220	LDB3	MBOAT7	MOGS	MYLK2
KCNA2	KIF11	LDHA	MBTPS2	MORC2	MYO5A

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MYO9A	NDUFS2	NNT	PAFAH1B1	PEX12	PIGL
MYOM1	NDUFS3	NODAL	PAK3	PEX13	PIGM
MYOT	NDUFS4	NOG	PAM16	PEX14	PIGN
MYOZ2	NDUFS6	NOL3	PANK2	PEX16	PIGO
MYPN	NDUFS7	NONO	PARK2	PEX19	PIGP
NACC1	NDUFS8	NOTCH3	PARK7	PEX2	PIGQ
NAGA	NDUFV1	NPC1	PARS2	PEX26	PIGT
NAGLU	NDUFV2	NPC2	PAX6	PEX3	PIGV
NALCN	NEB	NPHP1	PC	PEX5	PIGW
NARS2	NEBL	NPHP3	PCBD1	PEX6	PIGY
NBEA	NECAP1	NPPA	PCDH12	PEX7	PIK3CA
NBN	NEDD4L	NPRL2	PCDH19	PFKM	PIK3R2
NCAPD2	NEFH	NPRL3	PCLO	PFN1	PIK3R5
NCAPD3	NEFL	NR2F1	PCNT	PGAM2	PINK1
NDE1	NEU1	NRAS	PDCD10	PGAP1	PITRM1
NDRG1	NEUROD2	NRXN1	PDE10A	PGAP2	PKP2
NDST1	NEXN	NSDHL	PDE6D	PGAP3	PLA2G6
NDUFA1	NFIB	NSUN2	PDE8B	PGK1	PLAA
NDUFA10	NFIX	NT5C2	PDGFB	PGM1	PLCB1
NDUFA11	NFU1	NTRK1	PDGFRB	PHACTR1	PLEC
NDUFA12	NGF	NUBPL	PDHA1	PHC1	PLEKHG2
NDUFA2	NGLY1	NUP62	PDHB	PHF6	PLEKHG4
NDUFA4	NHEJ1	NUS1	PDHX	PHF8	PLEKHG5
NDUFA9	NHLRC1	OCLN	PDK3	PHGDH	PLEKHM2
NDUFAF1	NIN	OGDH	PDLIM3	PHKA1	PLK4
NDUFAF2	NIPA1	OPA1	PDP1	PHKG2	PLN
NDUFAF3	NIPBL	OPHN1	PDSS1	PHYH	PLP1
NDUFAF4	NKX2-1	OPTN	PDSS2	PI4KA	PMM2
NDUFAF5	NKX2-5	OTC	PDYN	PIBF1	PMP22
NDUFAF6	NKX6-2	OTX2	PET100	PIEZO2	PMPCA
NDUFB3	NLGN3	P4HB	PEX1	PIGA	PNKD
NDUFB9	NLGN4X	PACS1	PEX10	PIGC	PNKP
NDUFS1	NLRP3	PACS2	PEX11B	PIGG	PNPLA2

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PNPLA6	PRODH	RAF1	RPL10	SEPN1	SLC20A2
PNPLA8	PROP1	RAI1	RPS6KA3	SEPSECS	SLC22A5
PNPO	PRPH	RANBP2	RRM2B	SEPT9	SLC25A1
POGZ	PRPS1	RAPSN	RTN2	SERPINI1	SLC25A12
POLG	PRRT2	RARS	RTN4IP1	SETBP1	SLC25A15
POLG2	PRSS12	RARS2	RTTN	SETD2	SLC25A19
POLR1C	PRX	RBBP8	RYR1	SETX	SLC25A20
POLR3A	PSAP	RBFOX1	RYR2	SFXN4	SLC25A22
POLR3B	PSAT1	RBFOX3	SACS	SGCA	SLC25A26
POMGNT1	PSEN1	RBM10	SAMD9L	SGCB	SLC25A3
POMGNT2	PSEN2	RBM20	SAMHD1	SGCD	SLC25A4
POMK	PSPH	RECQL4	SASS6	SGCE	SLC25A46
POMT1	PTCH1	REEP1	SATB2	SGCG	SLC2A1
POMT2	PTCHD1	REEP2	SBF1	SGSH	SLC30A10
PPM1K	PTEN	RELN	SBF2	SH3TC2	SLC33A1
PPP1CB	PTF1A	RFT1	SCARB2	SHANK2	SLC35A1
PPP1R15B	PTPN11	RHOBTB2	SCN10A	SHH	SLC35A2
PPP2R2B	PTPN23	RIN2	SCN11A	SHOC2	SLC35C1
PPP2R5D	PTRH2	RLIM	SCN1A	SHROOM4	SLC37A4
PPP3CA	PTS	RMND1	SCN1B	SIGMAR1	SLC39A14
PPT1	PUM1	RNASEH2A	SCN2A	SIK1	SLC39A8
PQBP1	PURA	RNASEH2B	SCN3A	SIL1	SLC46A1
PRDM12	PYCR2	RNASEH2C	SCN4A	SIX3	SLC52A2
PRDM16	PYGM	RNASET2	SCN5A	SLC12A5	SLC52A3
PRDM8	QARS	RNF125	SCN8A	SLC12A6	SLC5A7
PREPL	QDPR	RNF135	SCN9A	SLC13A5	SLC6A1
PRICKLE1	RAB11B	RNF170	SCO1	SLC16A1	SLC6A3
PRICKLE2	RAB18	RNF216	SCP2	SLC16A2	SLC6A5
PRIMA1	RAB39B	ROBO3	SCYL1	SLC17A5	SLC6A8
PRKAG2	RAB3GAP1	ROGDI	SDHA	SLC19A3	SLC6A9
PRKCG	RAB3GAP2	ROR2	SDHAF1	SLC1A2	SLC9A1
PRKRA	RAB7A	RORB	SDHB	SLC1A3	SLC9A6
PRNP	RAD21	RPGRIP1L	SDHD	SLC1A4	SLC9A9

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SMA	SPTLC1	TAF1	THOC2	TPM2	TTR
SMARCA2	SPTLC2	TAF2	THOC6	TPM3	TUBA1A
SMARCA4	SQSTM1	TANGO2	TIA1	TPP1	TUBA4A
SMC1A	SRD5A3	TARDBP	TIMM8A	TRAIP	TUBA8
SMC3	SRPX2	TARS2	TK2	TRAK1	TUBB
SMCHD1	ST3GAL3	TAZ	TMCO1	TRAPPC11	TUBB2A
SMN	ST3GAL5	TBC1D20	TMEM106B	TRAPPC12	TUBB2B
SMPD1	STAC3	TBC1D23	TMEM107	TRAPPC6B	TUBB3
SMS	STAG2	TBC1D24	TMEM126B	TRAPPC9	TUBB4A
SNAP25	STAMPB	TBC1D7	TMEM138	TREM2	TUBG1
SNAP29	STIL	TBCD	TMEM165	TREX1	TUBGCP4
SNCA	STIM1	TBCE	TMEM216	TRIM2	TUBGCP6
SNCAIP	STRADA	TBCK	TMEM231	TRIM32	TUFM
SNIP1	STUB1	TBK1	TMEM237	TRIP12	TUSC3
SNORD118	STX1B	TBL1XR1	TMEM240	TRIP4	TWIST1
SNX14	STXBP1	TBP	TMEM43	TRMT10A	TXNRD2
SNX27	SUCLA2	TBR1	TMEM5	TRPM7	TYMP
SOBP	SUCLG1	TCAP	TMEM67	TRPV4	TYROBP
SOD1	SUMF1	TCF20	TMEM70	TSC1	UBA1
SORL1	SUN1	TCF4	TMPO	TSC2	UBA5
SOS1	SUN2	TCTN1	TMTC3	TSEN15	UBE2A
SOX10	SUOX	TCTN2	TNNC1	TSEN2	UBE3A
SOX11	SURF1	TCTN3	TNNI3	TSEN34	UBE3B
SPAST	SYN1	TDGF1	TNNT1	TSEN54	UBQLN2
SPATA5	SYNE1	TDP1	TNNT2	TSFM	UBTF
SPG11	SYNE2	TECPR2	TNPO3	TSHR	UCHL1
SPG20	SYNGAP1	TECR	TOE1	TSPAN7	UNC80
SPG21	SYNJ1	TFG	TOP3A	TTBK2	UPF3B
SPG7	SYP	TGFB3	TOR1A	TTC19	UQCC2
SPR	SYT14	TGIF1	TOR1AIP1	TTC21B	UQCRB
SPTAN1	SYT2	TGM6	TP11	TTI2	UQCRC2
SPTBN2	SZT2	TH	TPK1	TTN	UQCRCQ
SPTBN4	TACO1	THAP1	TPM1	TTPA	USP8

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USP9X	XK
VAC14	XPR1
VAMP1	XRCC4
VAMP2	YAP1
VANGL1	YARS
VAPB	YWHAE
VARS	YWHAG
VARS2	YY1
VCL	ZBTB18
VCP	ZC4H2
VLDLR	ZCCHC12
VMA21	ZDHHC15
VPS11	ZDHHC9
VPS13A	ZEB2
VPS13B	ZFR
VPS13C	ZFYVE26
VPS35	ZFYVE27
VPS37A	ZIC2
VPS53	ZNF148
VRK1	ZNF335
WAC	ZNF41
WARS2	ZNF423
WDR26	ZNF592
WDR45	ZNF674
WDR45B	ZNF711
WDR48	ZNF81
WDR62	ZNHIT3
WDR73	
WDR81	
WFS1	
WNK1	
WNT5A	
WWOX	

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