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## SEZNAM

### Metod prováděných v laboratoři OLG

#### Akreditované metody

##### 1. Vyšetření karyotypu:

- z periferní krve
- z plodové vody
- z choriových klků
- z produktů koncepce
- z jiných solidních tkání

##### 2. Vyšetření získaných chromozomových aberací z periferní krve

- u pracovníků z rizikového prostředí (RTG, chemikálie apod.), pacientů léčených cytostatiky nebo zářením apod.

##### 3. Molekulárně genetické vyšetření fragmentační analýzou:

- nejčastějších aneuploidií a pohlavních chromozomů (13,15,16,18,21,22,X,Y)\*
- *FMR1* genu- *syndrom Fragilního X* (včetně přenašečství)
- Gilbertův syndrom
- varianty v genu pro CALRETICULIN

##### 4. Metoda MLPA:

- nejčastější mikrodeleční syndromy
- spinální muskulární atrofie *SMA* (včetně přenašečství)
- Duchennova / Beckerova muskulární dystrofie *DMD/BMD* (včetně přenašečství)
- delece/ duplikace *BRCA1* genu
- delece/ duplikace *BRCA2, CHEK2, PMS2* genů
- delece/ duplikace *MHL1, MSH2, MSH6, MUTYH, EPCAM*, genů
- delece/ duplikace *PALB2, RAD50, RAD51C, RAD51D*
- delece/ duplikace *SCN1A, PMP22, FBN1, EXT1*
- delece/ duplikace *TSC1, TSC2, NF1, NF2, ATM* genů


##### 5. Metoda RT - PCR

- laktózová intolerance\*
- TPMT (thiopurin S-metyltransferáza)
- deficiencie alfa-1-antitrypsinu (*SERPINA1*)
- B\*27 - asociovano s morbus Bechtěrev \*
- asociovaných s celikakii \*
- varianty v genu *JAK2*
- patogenní varianty faktoru V; Leiden G1691A
- patogenní varianty faktoru II; Protrombin G20210A

##### 6. Metoda array CGH - SurePrint G3 CGH v2, 8x60K a SurePrint Custom design 087410

##### 7. Vyšetření vybraných genů masivním paralelním sekvenováním (MPS)

**vyšetření asociované s onkologickými a některými neurologickými chorobami**

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**Hereditární Panel\_ custom panel \_verze 4 – Hereditary\_ID 357991**

ABRAXAS1, ACD, AKT1, ANCLE1, APC, ATM, A2ML1, BABAM1, BAP1, BARD1, BIVMERCC5, BLM, BRAF, BRCA1, BRCA2, BRIP1, CAPN3, CASP8, CASR, CAV3, CBL, CD3EAP, CDC73, CDH1, CDKN2A, CDK4, CEBPA, COL6A1, COL6A2, COL6A3, CTAGE1, CTCR, DCLRE1B, DDB2, DHCR7, DICER1, DIS3L2, DMD, ELL, EPCAM, ERCC1, ERCC2, ERCC3, ERCC4, ET, FAM111B, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCI, FANCL, FANCM, FBN1, FH, FLCN, FOXG1, GREM1, HBOXB13, HPSE2, HRAS, CHEK2, KIAA2026, KIF1B, KIT, KLLN, KRAS, LMNA, LZTR1, MAP2K1, MAP2K2, MECP2, MEK1, MEN1, MET, MLH1, MRE11, MSH2, MSH6, MUC5B, MUTYH, NBN, NDUF3, NF1, NF2, NOTCH3, NRAS, NSD1, NTHL1, PABPN1, PALB2, PAX9, PDGFRA, PEX14, PIK3CA, PKD1, PKD2, PKHD1, PMS2, POLD1, POLE, POT 1, PPP1CB, PRKAR1A, PRSS1, PRSS2, PTEN, PTC1, PTPN11, RAD50, RAD51B, RAD51C, RAD51D, RAF1, RASA2, RB1, RECQL4, RET, RHBDF2, RINT1, RIT1, RRAS, RUNX1, SDHA, SDHB, SDHC, SDHD, SERPIND1, SFTPA1, SFTPA2, SFTPC, SHOX, SIPA1, SLC4A7, SLX4, SMAD4, SMARCA4, SMARCB1, SMLR1, SOS1, SOS2, SOX6, SPINK1, SPRED1, STK11, SUFU, TERC, TERF2IP, TERT, TGF3R2, TCHHL1, TP53, TSC1, TSC2, VAPN3, VLH, WT1, XPA, XPC, XRCC2

**Panel\_ Epilepsie a epileptické syndromy \_verze 1\_ ID:3492231**

AARS, ABAT, ACTL6B, ADAM22, ADAR, ADSL, ALDH7A1, ALG13, AMACR, AMT, AP2M1, AP3B2, AP4S1, APOPT1, ARHGGEF9, ARHGGEF15, ARX, ASAH 1, ASNS, ATP1A2, ATP1A3, ATP6V1A, BRAT1, BRD2, C10ORF2, CACNA1A, CACNA1B, CACNA2D2, CACNA1H, CACNA1E, CACNB4, CARS, CASK, CDKL5, CHD2, CHRNA2, CHRNA4, CHRNA7, CHRN2, CLCN2, CLCN4, CLTC, CNKSR2, CNPY3, CNTNAP2, COX6B1, CPA6, CPT2, CSTB, CYFIP2, D2HGDH, DCX, DENND5A, DEPDC5, DNM1, DNM1L, DOCK7, ECHS1, EEF1A2, EFHC1, ETHE1, EPM2A, FAR1, FARS2, FGF12, FLNA, FOLR1, FOXG1, FRRS1L, GABBR2, GABRA1, GABRB2, GABRB3, GABRD, GABRG2, GAMT, GCSH, GLDC, GLRA1, GLRB, GNAO1, GOSR2, GPHN, GPR98, GRIN1, GRIN2A, GRIN2B, GTPBP3, HCN1, HECW2, HEPACAM, HIBCH, HNRNPU, HTT, IQSEC, JRK, KCNA1, KCNA2, KCNAB1, KCNB1, KCNC1, KCNJ10, KCNMA1, KCNQ2, KCNQ3, KCNQ5, KCNT1, KCNT2, KCTD3, KCTD7, KIF1A, LGI1, LMNB2, LRPPRC, LYRM7, MBD5, MDH2, MECP2, MED17, MEF2C, MOCS1, MOCS2, MRPL44, MTFMT, MTHFR, MTOR, NACC1, NDUFAF6, NDUFS2, NDUFS4, NDUFS6, NDUFS7, NDUFS8, NDUFV1, NECAP1, NEUROD2, NHLRC1, NPRL3, NRXN1, NUBPL, PARS2, PCDH19, PHACTR1, PIGA, PIGB, PIGP, PIGQ, PIGS, PLAA, PLCB1, PNKP, PNPO, POLG, PPP3CA, PRICKLE1, PRRT2, PROSC, PTPN23, PURA, QARS1, RELN, RMND1, RNASEH2A, RNASEH2B, RNASEH2C, ROGDI, SCARB2, SCN1A, SCN1B, SCN2A, SCN3A, SCN5A, SCN8A, SCN9A, SCO1, SDHAF1, SERAC1, SERPIN1, SIK1, SLC12A5, SLC13A5, SLC19A3, SLC25A1, SLC25A2, SLC2A1, SLC35A2, SLC6A1, SLC6A8, SLC9A6, SNAP25, SPTAN1, SRPX2SAMHD1, ST3GAL3, ST3GAL5, STX1B, STXBP1, SYN1, SYNGAP1, SYNJ1, SZT2, TBC1D24, TBCD, TBCE, TBC1D24, TBCK, TCF4, TRAK1, TREX1, TRIM8, TSC1, TSC2, TTC19, UBA5, UBE3A, UNC80, VARS, WARS2, WDR45, WWOX, ZEB2

**Panel\_ Familiární Hypercholesterolémie \_verze 1\_ ID3445331**

ABCG5, ABCG8, APOA4, APOA5, APOB, APOC2, APOC3, APOE, CETP, CREB3L3, GPD1, GPIHBP1, HMGCR, LDLR, LDLRAP1, LIPA, LIPC, LIPE, LIPG, LIPI, LMF1, LPL, PCSK9, SCARB1, SORT1, STAP1

**Panel\_ SureSelect XT HS Human All Exon V8 – NCV (viz konec dokumentu)**

**8. Sangerovo sekvenování vybraných genů**

**Hereditární Panel\_ custom panel \_verze 4 – Hereditary\_ID 357991**

**Panel\_ Epilepsie a epileptické syndromy \_verze 1\_ ID:3492231**

**Panel\_ Familiární Hypercholesterolémie \_verze 1\_ ID3445331**

**Panel\_ SureSelect XT HS Human All Exon V8 – NCV (viz konec dokumentu)**

**9. Metoda RT PCR (LAMP smyčky)**

- patogenní varianty faktoru V; Leiden G1691A
- patogenní varianty faktoru II; Protrombin G20210A


**11. Molekulárně genetické vyšetření metodou PCR analýzy s restrikčním štěpením**

- mutace MTHFR A1298C a C677T v genu pro methylentetrahydrofolát reduktázu\*

**Neakreditované metody**

**1. Metoda MLPA:**

- X-vázané MR

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- Rettův a Rett-like syndrom
- vyšetření častých mutací genů autistického spektra

## 2. Molekulárně genetické vyšetření metodou PCR analýzy s restričním štěpením

polymorfismus mutace rs3750920 TOLLIP genu

## 3. Vyšetření Fluorescenční in situ hybridizace (FISH):

- Centromerické sondy
- Lokus specifické sondy

**Mikrodeleční syndromy:** DiGeorge syndrom; Prader-Willi/Angelman syndrom; Miller-Dieker syndrom; Smith-Magenis syndrom; Williams-Beuren syndrom; Kallman syndrom; Dandy-Walker syndrom; Wolf-Hirschhorn syndrom; Cri-du-Chat/SOTOS syndrom; X-vázané lissencefalie; SHOX gen; SRY gen; acro-p-arm; **Fúzní sondy** (např. u idiopatického eosinofilního syndromu)

\*Tato vyšetření se provádí i ze vzorků bukalního stěru.

### Vyšetření, která může indikovat lékař mimo odbornost 208

Číslo 1; 6; 7; 11; 12 a u vyšetření číslo 4 jen vyšetření Gilbertova syndromu. U neakreditovaných metod číslo 2.

### Fialová zkumavka (izolace DNA)

### Zelená zkumavka (kultivace na karyotyp, ZCA, FISH)

Vzorky se přijímají každý všední den


**Pondělí až čtvrtek 7:00-14:00**

**Pátek 7:00-13:00**

- ve zkumavce s fyziologickým roztokem (choriové klky, produkty koncepce a solidní tkáňe, bukalní stěr)
- ve zkumavce s EDTA (periferní krev)
- ve zkumavce s Li-heparinem (zelená zkumavka)
- izolovaná DNA (z jiného pracoviště)


### Panel\_ SureSelect XT HS Human All Exon V8 – NCV (viz konec dokumentu)

A1BG, A1CF, A2M, A2ML1, A3GALT2, A4GALT, A4GNT, AAAS, AACS, AADAC, AADA2, AADA2L2, AADA2L3, AADA2L4, AADAT, AAGAB, AAK1, AAMDC, AAMP, AANAT, AAR2, AARD, AARS1, AARS2, AARSD1, AASDH, AASDHPT, AASS, AATF, AATK, ABAT, ABCA1, ABCA10, ABCA12, ABCA13, ABCA2, ABCA3, ABCA4, ABCA5, ABCA6, ABCA7, ABCA8, ABCA9, ABCB1, ABCB10, ABCB11, ABCB4, ABCB5, ABCB6, ABCB7, ABCB8, ABCB9, ABCC1, ABCC10, ABCC11, ABCC12, ABCC2, ABCC3, ABCC4, ABCC5, ABCC6, ABCC8, ABCC9, ABCD1, ABCD2, ABCD3, ABCD4, ABCE1, ABCF1, ABCF2, ABCF3, ABCG1, ABCG2, ABCG4, ABCG5, ABCG8, ABHD1, ABHD10, ABHD11, ABHD12, ABHD12B, ABHD13, ABHD14A, ABHD14B, ABHD15, ABHD16A, ABHD16B, ABHD17A, ABHD17B, ABHD17C, ABHD18, ABHD2, ABHD3, ABHD4, ABHD5, ABHD6, ABHD8, ABI1, ABI2, ABI3, ABI3BP, ABITRAM, ABL1, ABL2, ABLIM1, ABLIM2, ABLIM3, ABO, ABR, ABRA, ABRA1, ABRA2, ABRA3, ABT1, ABTB1, ABTB2, ACAA1, ACAA2, ACACA, ACACB, ACAD10, ACAD11, ACAD8, ACAD9, ACADL, ACADM, ACADS, ACADSB, ACADVL, ACAN, ACAP1, ACAP2, ACAP3, ACAT1, ACAT2, ACBD3, ACBD4, ACBD5, ACBD6, ACBD7, ACCS, ACCSL, ACD, ACE, ACE2, ACER1, ACER2, ACER3, ACHE, ACIN1, ACKR1, ACKR2, ACKR3, ACKR4, ACP1, ACP2, ACP3, ACP4, ACP5, ACP6, ACP7, ACPP, ACR, ACRBP, ACRV1, ACSBG1, ACSBG2, ACSF2, ACSF3, ACSL1, ACSL3, ACSL4, ACSL5, ACSL6, ACSM1, ACSM2A, ACSM2B, ACSM3, ACSM4, ACSM5, ACSM6, ACSS1, ACSS2, ACSS3, ACTA1, ACTA2, ACTB, ACTBL2, ACTC1, ACTG1, ACTG2, ACTL10, ACTL6A, ACTL6B, ACTL7A, ACTL7B, ACTL8, ACTL9, ACTN1, ACTN2, ACTN3, ACTN4, ACTR10, ACTR1A, ACTR1B, ACTR2, ACTR3, ACTR3B, ACTR3C, ACTR5, ACTR6, ACTR8, ACTRT1, ACTRT2, ACTRT3, ACVR1, ACVR1B, ACVR1C, ACVR2A, ACVR2B, ACVRL1, ACY1, ACY3, ACYP1, ACYP2, ADA, ADA2, ADAD1, ADAD2, ADAL, ADAM10, ADAM11, ADAM12, ADAM15,


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ADAM17, ADAM18, ADAM19, ADAM2, ADAM20, ADAM21, ADAM22, ADAM23, ADAM28, ADAM29, ADAM30, ADAM32, ADAM33, ADAM7, ADAM8, ADAM9, ADAMDEC1, ADAMTS1, ADAMTS10, ADAMTS12, ADAMTS13, ADAMTS14, ADAMTS15, ADAMTS16, ADAMTS17, ADAMTS18, ADAMTS19, ADAMTS2, ADAMTS20, ADAMTS3, ADAMTS4, ADAMTS5, ADAMTS6, ADAMTS7, ADAMTS8, ADAMTS9, ADAMTSL1, ADAMTSL2, ADAMTSL3, ADAMTSL4, ADAMTSL5, ADAP1, ADAP2, ADAR, ADARB1, ADARB2, ADAT1, ADAT2, ADAT3, ADCK1, ADCK2, ADCK5, ADCY1, ADCY10, ADCY2, ADCY3, ADCY4, ADCY5, ADCY6, ADCY7, ADCY8, ADCY9, ADCYAP1, ADCYAP1R1, ADD1, ADD2, ADD3, ADGB, ADGRA1, ADGRA2, ADGRA3, ADGRB1, ADGRB2, ADGRB3, ADGRD1, ADGRE1, ADGRE2, ADGRE3, ADGRE5, ADGRF1, ADGRF2, ADGRF3, ADGRF4, ADGRF5, ADGRG1, ADGRG2, ADGRG3, ADGRG4, ADGRG5, ADGRG6, ADGRG7, ADGRL1, ADGRL2, ADGRL3, ADGRL4, ADGRV1, ADH1A, ADH1B, ADH1C, ADH4, ADH5, ADH6, ADH7, ADHFE1, ADI1, ADIG, ADIPOQ, ADIPOR1, ADIPOR2, ADIRF, ADK, ADM, ADM2, ADM5, ADNP, ADNP2, ADO, ADORA1, ADORA2A, ADORA2B, ADORA3, ADPGK, ADPRH, ADPRHL1, ADPRHL2, ADPRM, ADRA1A, ADRA1B, ADRA1D, ADRA2A, ADRA2B, ADRA2C, ADRB1, ADRB2, ADRB3, ADRM1, ADSL, ADSS1, ADSS2, ADTRP, AEBP1, AEBP2, AEN, AFAP1, AFAP1L1, AFAP1L2, AFDN, AFF1, AFF2, AFF3, AFF4, AFG1L, AFG3L2, AFM, AFMID, AFP, AFTPH, AGA, AGAP1, AGAP11, AGAP2, AGAP3, AGAP4, AGAP5, AGAP6, AGAP9, AGBL1, AGBL2, AGBL3, AGBL4, AGBL5, AGER, AGFG1, AGFG2, AGGF1, AGK, AGL, AGMAT, AGMO, AGO1, AGO2, AGO3, AGO4, AGPAT1, AGPAT2, AGPAT3, AGPAT4, AGPAT5, AGPS, AGR2, AGR3, AGRN, AGRP, AGT, AGTPBP1, AGTR1, AGTR2, AGTRAP, AGXT, AGXT2, AHCTF1, AHCY, AHCYL1, AHCYL2, AHDC1, AH11, AHNAK, AHNAK2, AHR, AHRR, AHS1A, AHS2, AHSP, AICDA, AIDA, AIF1, AIF1L, AIFM1, AIFM2, AIFM3, AIG1, AIM2, AIMP1, AIMP2, AIP, AIPL1, AIRE, AJAP1, AJM1, AJUBA, AK1, AK2, AK3, AK4, AK5, AK6, AK7, AK8, AK9, AKAIN1, AKAP1, AKAP10, AKAP11, AKAP12, AKAP13, AKAP14, AKAP17A, AKAP3, AKAP4, AKAP5, AKAP6, AKAP7, AKAP8, AKAP8L, AKAP9, AKIP1, AKIRIN1, AKIRIN2, AKNA, AKNAD1, AKR1A1, AKR1B1, AKR1B10, AKR1B15, AKR1C1, AKR1C2, AKR1C3, AKR1C4, AKR1D1, AKR1E2, AKR7A2, AKR7A3, AKT1, AKT1S1, AKT2, AKT3, AKTIP, ALAD, ALAS1, ALAS2, ALB, ALCAM, ALDH16A1, ALDH18A1, ALDH1A1, ALDH1A2, ALDH1A3, ALDH1B1, ALDH1L1, ALDH1L2, ALDH2, ALDH3A1, ALDH3A2, ALDH3B1, ALDH3B2, ALDH4A1, ALDH5A1, ALDH6A1, ALDH7A1, ALDH8A1, ALDH9A1, ALDOA, ALDOB, ALDOC, ALG1, ALG10, ALG10B, ALG11, ALG12, ALG13, ALG14, ALG1L, ALG1L2, ALG2, ALG3, ALG5, ALG6, ALG8, ALG9, ALK, ALKAL1, ALKAL2, ALKBH1, ALKBH2, ALKBH3, ALKBH4, ALKBH5, ALKBH6, ALKBH7, ALKBH8, ALLC, ALMS1, ALOX12, ALOX12B, ALOX15, ALOX15B, ALOX5, ALOX5AP, ALOXE3, ALPG, ALPI, ALPK1, ALPK2, ALPK3, ALPL, ALPP, ALS2, ALS2CL, ALX1, ALX3, ALX4, ALYREF, AMACR, AMBN, AMBP, AMBRA1, AMD1, AMDHD1, AMDHD2, AMELX, AMELY, AMER1, AMER2, AMER3, AMFR, AMH, AMHR2, AMIGO1, AMIGO2, AMIGO3, AMMECR1, AMMECR1L, AMN, AMN1, AMOT, AMOTL1, AMOTL2, AMPD1, AMPD2, AMPD3, AMPH, AMT, AMTN, AMY1A, AMY1B, AMY1C, AMY2A, AMY2B, AMZ1, AMZ2, ANAPC1, ANAPC10, ANAPC11, ANAPC13, ANAPC15, ANAPC16, ANAPC2, ANAPC4, ANAPC5, ANAPC7, ANG, ANGEL1, ANGEL2, ANGPT1, ANGPT2, ANGPT4, ANGPTL1, ANGPTL2, ANGPTL3, ANGPTL4, ANGPTL5, ANGPTL6, ANGPTL7, ANGPTL8, ANHX, ANK1, ANK2, ANK3, ANKAR, ANKDD1A, ANKDD1B, ANKEF1, ANKFN1, ANKFY1, ANKH, ANKHD1, ANKIB1, ANKK1, ANKLE1, ANKLE2, ANKMY1, ANKMY2, ANKRA2, ANKRD1, ANKRD10, ANKRD11, ANKRD12, ANKRD13A, ANKRD13B, ANKRD13C, ANKRD13D, ANKRD16, ANKRD17, ANKRD18A, ANKRD18B, ANKRD2, ANKRD20A1, ANKRD20A2, ANKRD20A3, ANKRD20A4, ANKRD22, ANKRD23, ANKRD24, ANKRD26, ANKRD27, ANKRD28, ANKRD29, ANKRD30A, ANKRD30B, ANKRD30BL, ANKRD31, ANKRD33, ANKRD33B, ANKRD34A, ANKRD34B, ANKRD34C, ANKRD35, ANKRD36, ANKRD36B, ANKRD36C, ANKRD37, ANKRD39, ANKRD40, ANKRD40CL, ANKRD42, ANKRD44, ANKRD45, ANKRD46, ANKRD49, ANKRD50, ANKRD52, ANKRD53, ANKRD54, ANKRD55, ANKRD6, ANKRD60, ANKRD61, ANKRD62, ANKRD63, ANKRD65, ANKRD66, ANKRD7, ANKRD9, ANKS1A, ANKS1B, ANKS3, ANKS4B, ANKS6, ANKUB1, ANKZF1, ANLN, ANO1, ANO10, ANO2, ANO3, ANO4, ANO5, ANO6, ANO7, ANO8, ANO9, ANOS1, ANP32A, ANP32B, ANP32C, ANP32D, ANP32E, ANPEP, ANTKMT, ANTXR1, ANTXR2, ANTXRL, ANXA1, ANXA10, ANXA11, ANXA13, ANXA2, ANXA2R, ANXA3, ANXA4, ANXA5, ANXA6, ANXA7, ANXA8, ANXA8L1, ANXA9, AOA, AOC1, AOC2, AOC3, AOPEP, AOX1, AP1AR, AP1B1, AP1G1, AP1G2, AP1M1, AP1M2, AP1S1, AP1S2, AP1S3, AP2A1, AP2A2, AP2B1, AP2M1, AP2S1, AP3B1, AP3B2, AP3D1, AP3M1, AP3M2, AP3S1, AP3S2, AP4B1, AP4E1, AP4M1, AP4S1, AP5B1, AP5M1, AP5S1, AP5Z1, APAF1, APBA1, APBA2, APBA3, APBB1, APBB1IP, APBB2, APBB3, APC, APC2, APCDD1, APCDD1L, APCS, APEH, APELA, APEX1, APEX2, APH1A, APH1B, API5, APIP, APLF, APLN, APLNR, APLP1, APLP2, APMAP, APOA1, APOA2, APOA4, APOA5, APOB, APOBEC1, APOBEC2, APOBEC3A, APOBEC3B, APOBEC3C, APOBEC3D, APOBEC3F, APOBEC3G, APOBEC3H, APOBEC4, APOBR, APOC1, APOC2, APOC3, APOC4, APOD, APOE, APOF, APOH, APOL1, APOL2, APOL3, APOL4, APOL5, APOL6, APOLD1, APOM, APOO, APOOL, APP, APPBP2, APPL1, APPL2, APRT, APTX, AQP1, AQP10, AQP11, AQP12A, AQP12B, AQP2, AQP3, AQP4, AQP5, AQP6, AQP7, AQP8, AQP9, AQR, AR, ARAF, ARAP1, ARAP2, ARAP3, ARC, ARCN1, AREG, AREL1, ARF1, ARF3, ARF4, ARF5, ARF6, ARFGAP1,



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*BOD1, BOD1L1, BOD1L2, BOK, BOLA1, BOLA2, BOLA2B, BOLA3, BOLL, BOP1, BORA, BORCS5, BORCS6, BORCS7, BORCS8, BPGM, BPHL, BPI, BPIFA1, BPIFA2, BPIFA3, BPIFB1, BPIFB2, BPIFB3, BPIFB4, BPIFB6, BPIFC, BPNT1, BPTF, BPY2, BPY2B, BPY2C, BRAF, BRAP, BRAT1, BRCA1, BRCA2, BRCC3, BRD1, BRD2, BRD3, BRD3OS, BRD4, BRD7, BRD8, BRD9, BRDT, BRF1, BRF2, BRI3, BRI3BP, BRICD5, BRINP1, BRINP2, BRINP3, BRIP1, BRIX1, BRK1, BRMS1, BRMS1L, BROX, BRPF1, BRPF3, BRS3, BRSK1, BRSK2, BRWD1, BRWD3, BSCL2, BSDC1, BSG, BSN, BSND, BSPH1, BSPRY, BST1, BST2, BSX, BTAF1, BTBD1, BTBD10, BTBD11, BTBD16, BTBD17, BTBD18, BTBD19, BTBD2, BTBD3, BTBD6, BTBD7, BTBD8, BTBD9, BTC, BTB, BTF3, BTF3L4, BTG1, BTG2, BTG3, BTG4, BTK, BTLA, BTN1A1, BTN2A1, BTN2A2, BTN3A1, BTN3A2, BTN3A3, BTNL10, BTNL2, BTNL3, BTNL8, BTNL9, BTRC, BUB1, BUB1B, BUB3, BUD13, BUD23, BUD31, BVES, BYSL, BZW1, BZW2, C10orf105, C10orf120, C10orf143, C10orf53, C10orf62, C10orf67, C10orf71, C10orf82, C10orf88, C10orf90, C10orf95, C10orf99, C11orf1, C11orf16, C11orf21, 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CAMKK1, CAMKK2, CAMKMT, CAMKV, CAMLG, CAMP, CAMSAP1, CAMSAP2, CAMSAP3, CAMTA1, CAMTA2, CAND1, CAND2, CANT1, CANX, CAP1, CAP2, CAPG, CAPN1, CAPN10, CAPN11, CAPN12, CAPN13, CAPN14, CAPN15, CAPN2, CAPN3, CAPN5, CAPN6, CAPN7, CAPN8, CAPN9, CAPNS1, CAPNS2, CAPRIN1, CAPRIN2, CAPS, CAPS2, CAPSL, CAPZA1, CAPZA2, CAPZA3, CAPZB, CARD10, CARD11, CARD14, CARD16, CARD17, CARD18, CARD19, CARD6, CARD8, CARD9, CARF, CARHSP1, CARM1,*

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CARMIL1, CARMIL2, CARMIL3, CARNMT1, CARNS1, CARS1, CARS2, CARTPT, CASC1, CASC3, CASC4, CASD1, CASK, CASKIN1, CASKIN2, CASP1, CASP10, CASP14, CASP2, CASP3, CASP4, CASP5, CASP6, CASP7, CASP8, CASP8AP2, CASP9, CASQ1, CASQ2, CASR, CASS4, CAST, CASTOR1, CASTOR2, CASTOR3, CASZ1, CAT, CATIP, CATSPER1, CATSPER2, CATSPER3, CATSPER4, CATSPERB, CATSPERD, CATSPERE, CATSPERG, CATSPERZ, CAV1, CAV2, CAV3, CAVIN1, CAVIN2, CAVIN3, CAVIN4, CBARP, CBFA2T2, CBFA2T3, CBFB, CBL, CBLB, CBLC, CBLIF, CBL11, CBL12, CBLN1, CBLN2, CBLN3, CBLN4, CBR1, CBR3, CBR4, CBS, CBSL, CBWD1, CBWD2, CBWD3, CBWD5, CBWD6, CBX1, CBX2, CBX3, CBX4, CBX5, CBX6, CBX7, CBX8, CBY1, CBY2, CBY3, CC2D1A, CC2D1B, CC2D2A, CC2D2B, CCAR1, CCAR2, CCBE1, CCDC102A, CCDC102B, CCDC103, CCDC105, CCDC106, CCDC107, CCDC110, CCDC112, CCDC113, CCDC114, CCDC115, CCDC116, CCDC117, CCDC12, CCDC120, CCDC121, CCDC122, CCDC124, CCDC125, CCDC126, CCDC127, CCDC13, CCDC130, CCDC134, CCDC136, CCDC137, CCDC138, CCDC14, CCDC141, CCDC142, CCDC144A, CCDC146, 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*ERFE, ERFL, ERG, ERG28, ERGIC1, ERGIC2, ERGIC3, ERH, ERI1, ERI2, ERI3, ERICH1, ERICH2, ERICH3, ERICH4, ERICH5, ERICH6, ERICH6B, ERLEC1, ERLIN1, ERLIN2, ERMAP, ERMARD, ERMN, ERMP1, ERN1, ERN2, ERO1A, ERO1B, ERP27, ERP29, ERP44, ERRF1, ERV3, ERVFRD, ERVH48, ERVMER34, ERVV, ERVW, ESAM, ESCO1, ESCO2, ESD, ESF1, ESM1, ESPL1, ESPN, ESPNL, ESR1, ESR2, ESRP1, ESRP2, ESRR, ESRRB, ESRRG, ESS2, ESX1, ESYT1, ESYT2, ESYT3, ETAA1, ETDA, ETDB, ETDC, ETF1, ETFA, ETFB, ETFBKMT, ETFDH, ETFRF1, ETHE1, ETNK1, ETNK2, ETNPPL, ETS1, ETS2, ETV1, ETV2, ETV3, ETV3L, ETV4, ETV5, ETV6, ETV7, EVA1A, EVA1B, EVA1C, EVC, EVC2, EVI2A, EVI2B, EVI5, EVI5L, EVL, EVPL, EVPLL, EVX1, EVX2, EWSR1, EXD1, EXD2, EXD3, EXO1, EXO5, EXOC1, EXOC1L, EXOC2, EXOC3, EXOC3L1, EXOC3L2, EXOC3L4, EXOC4, EXOC5, EXOC6, EXOC6B, EXOC7, EXOC8, EXOG, EXOSC1, EXOSC10, EXOSC2, EXOSC3, EXOSC4, EXOSC5, EXOSC6, EXOSC7, EXOSC8, EXOSC9, EXPH5, EXT1, EXT2, EXTL1, EXTL2, EXTL3, EYA1, EYA2, EYA3, EYA4, EYS, EZH1, EZH2, EZHIP, EZR, F10, F11, F11R, F12, 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*FLT1, FLT3, FLT3LG, FLT4, FLVCR1, FLVCR2, FLYWCH1, FLYWCH2, FMC1, FMN1, FMN2, FMNL1, FMNL2, FMNL3, FMO1, FMO2, FMO3, FMO4, FMO5, FMOD, FMR1, FMR1NB, FN1, FN3K, FN3KRP, FNBP1, FNBP1L, FNBP4, FNDC1, FNDC10, FNDC11, FNDC3A, FNDC3B, FNDC4, FNDC5, FNDC7, FNDC8, FNDC9, FNIP1, FNIP2, FNTPA, FNTPB, FOCAD, FOLH1, FOLH1B, FOLR1, FOLR2, FOLR3, FOPNL, FOS, FOSB, FOSL1, FOSL2, FOXA1, FOXA2, FOXA3, FOXB1, FOXB2, FOXC1, FOXC2, FOXD1, FOXD2, FOXD3, FOXD4, FOXD4L1, FOXD4L3, FOXD4L4, FOXD4L5, FOXD4L6, FOXE1, FOXE3, FOXF1, FOXF2, FOXG1, FOXH1, FOXI1, FOXI2, FOXI3, FOXJ1, FOXJ2, FOXJ3, FOXK1, FOXK2, FOXL1, FOXL2, FOXL2NB, FOXM1, FOXN1, FOXN2, FOXN3, FOXN4, FOXO1, FOXO3, FOXO3B, FOXO4, FOXO6, FOXP1, FOXP2, FOXP3, FOXP4, FOXQ1, FOXR1, FOXR2, FOXRED1, FOXRED2, FOXS1, FPGS, FPGT, FPR1, FPR2, FPR3, FRA10AC1, FRAS1, FRAT1, FRAT2, FREM1, FREM2, FREM3, FRG1, FRG2, FRG2B, FRG2C, FRK, FRMD1, FRMD3, FRMD4A, FRMD4B, FRMD5, FRMD6, FRMD7, FRMD8, FRMPD1, FRMPD2, FRMPD3, FRMPD4, FRRS1, FRRS1L, FRS2, FRS3, FRY, FRYL, FRZB, FSBP, FSCB, FSCN1, FSCN2, FSCN3, FSD1, FSD1L, FSD2, FSHB, FSHR, FSIP1, FSIP2, FST, FSTL1, FSTL3, FSTL4, FSTL5, FTCD, FTCDNL1, FTH1, FTHL17, FTHL18, FTL, FTMT, FTO, FTSJ1, FTSJ3, FUBP1, FUBP3, FUCA1, FUCA2, FUNDC1, FUNDC2, FUOM, FURIN, FUS, FUT1, FUT10, FUT11, FUT2, FUT3, FUT4, FUT5, FUT6, FUT7, FUT8, FUT9, FUZ, FXN, FXR1, FXR2, FXYD1, FXYD2, FXYD3, FXYD4, FXYD5, FXYD6, FXYD7, FYB1, FYB2, FYCO1, FYN, FYTTD1, FZD1, FZD10, FZD2, FZD3, FZD4, FZD5, FZD6, FZD7, FZD8, FZD9, FZR1, GOS2, G2E3, G3BP1, G3BP2, G6PC, G6PC2, G6PC3, G6PD, GAA, GAB1, GAB2, GAB3, GAB4, GABARAP, GABARAPL1, GABARAPL2, GABBR1, GABBR2, GABPA, GABPB1, GABPB2, GABRA1, GABRA2, GABRA3, GABRA4, GABRA5, GABRA6, GABRB1, GABRB2, GABRB3, GABRD, GABRE, GABRG1, GABRG2, GABRG3, GABRP, GABRQ, GABRR1, GABRR2, GABRR3, GAD1, GAD2, GADD45A, GADD45B, GADD45G, GADD45GIP1, GADL1, GAGE1, GAGE10, GAGE12B, GAGE12C, GAGE12D, GAGE12E, GAGE12F, GAGE12G, GAGE12H, GAGE12J, GAGE13, GAGE2A, GAK, GAL, GAL3ST1, GAL3ST2, GAL3ST3, GAL3ST4, GALT, 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*GPD2, GPER1, GPHA2, GPHB5, GPHN, GPI, GPIHBP1, GPKOW, GPLD1, GPM6A, GPM6B, GPN1, GPN2, GPN3, GPNMB, GPR1, GPR101, GPR107, GPR108, GPR119, GPR12, GPR132, GPR135, GPR137, GPR137B, GPR137C, GPR139, GPR141, GPR142, GPR143, GPR146, GPR148, GPR149, GPR15, GPR150, GPR151, GPR152, GPR153, GPR155, GPR156, GPR157, GPR158, GPR160, GPR161, GPR162, GPR17, GPR171, GPR173, GPR174, GPR176, GPR179, GPR18, GPR180, GPR182, GPR183, GPR19, GPR20, GPR21, GPR22, GPR25, GPR26, GPR27, GPR3, GPR31, GPR32, GPR33, GPR34, GPR35, GPR37, GPR37L1, GPR39, GPR4, GPR42, GPR45, GPR50, GPR52, GPR55, GPR6, GPR61, GPR62, GPR63, GPR65, GPR68, GPR75, GPR78, GPR82, GPR83, GPR84, GPR85, GPR87, GPR88, GPR89A, GPR89B, GPRASP1, GPRASP2, GPRC5A, GPRC5B, GPRC5C, GPRC5D, GPRC6A, GPRIN1, GPRIN2, GPRIN3, GPS1, GPS2, GPSM1, GPSM2, GPSM3, GPT, GPT2, GPX1, GPX2, GPX3, GPX4, GPX5, GPX6, GPX7, GPX8, GRAMD1A, GRAMD1B, GRAMD1C, GRAMD2A, GRAMD2B, GRAMD4, GRAP, GRAP2, GRAPL, GRASP, GRB10, GRB14, GRB2, GRB7, GREB1, GREB1L, GREM1, GREM2, GRHL1, GRHL2, GRHL3, GRHPR, GRIA1, GRIA2, GRIA3, GRIA4, GRID1, GRID2, GRID2IP, GRIFIN, GRIK1, GRIK2, GRIK3, GRIK4, GRIK5, GRIN1, GRIN2A, GRIN2B, GRIN2C, GRIN2D, GRIN3A, GRIN3B, GRINA, GRIP1, GRIP2, GRIPAP1, GRK1, GRK2, GRK3, GRK4, GRK5, GRK6, GRK7, GRM1, GRM2, GRM3, GRM4, GRM5, GRM6, GRM7, GRM8, GRN, GRP, GRPEL1, GRPEL2, GRPR, GRSF1, GRTP1, GRWD1, GRXCR1, GRXCR2, GSAP, GSC, GSC2, GSDMA, GSDMB, GSDMC, GSDMD, GSDME, GSE1, GSG1, GSG1L, GSG1L2, GSK3A, GSK3B, GSKIP, GSN, GSPT1, GSPT2, GSR, GSS, GSTA1, GSTA2, GSTA3, GSTA4, GSTA5, GSTCD, GSTK1, GSTM1, GSTM2, GSTM3, GSTM4, GSTM5, GSTO1, GSTO2, GSTP1, GSTT2B, GSTT4, GSTZ1, GSX1, GSX2, GTDC1, GTF2A1, GTF2A1L, GTF2A2, GTF2B, GTF2E1, GTF2E2, GTF2F1, GTF2F2, GTF2H1, GTF2H2, GTF2H2C, GTF2H3, GTF2H4, GTF2H5, GTF2I, GTF2IRD1, GTF2IRD2, GTF2IRD2B, GTF3A, GTF3C1, GTF3C2, GTF3C3, GTF3C4, GTF3C5, GTF3C6, GTPBP1, GTPBP10, GTPBP2, GTPBP3, GTPBP4, GTPBP6, GTPBP8, GTSE1, GTSF1, GTSF1L, GUCA1A, GUCA1B, GUCA1C, GUCA2A, GUCA2B, GUCD1, GUCY1A1, GUCY1A2, GUCY1B1, GUCY2C, 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*PRPF18, PRPF19, PRPF3, PRPF31, PRPF38A, PRPF38B, PRPF39, PRPF4, PRPF40A, PRPF40B, PRPF4B, PRPF6, PRPF8, PRPH, PRPH2, PRPS1, PRPS1L1, PRPS2, PRPSAP1, PRPSAP2, PRR11, PRR12, PRR13, PRR14, PRR14L, PRR15, PRR15L, PRR16, PRR18, PRR19, PRR20A, PRR20B, PRR20C, PRR20D, PRR20E, PRR20G, PRR22, PRR23A, PRR23B, PRR23C, PRR23D1, PRR23D2, PRR25, PRR26, PRR27, PRR29, PRR3, PRR30, PRR32, PRR35, PRR36, PRR4, PRR5, PRR5L, PRR7, PRR9, PRRC1, PRRC2A, PRRC2B, PRRC2C, PRRG1, PRRG2, PRRG3, PRRG4, PRRT1, PRRT1B, PRRT2, PRRT3, PRRT4, PRRX1, PRRX2, PRSS1, PRSS12, PRSS16, PRSS2, PRSS21, PRSS22, PRSS23, PRSS27, PRSS3, PRSS33, PRSS35, PRSS36, PRSS37, PRSS38, PRSS41, PRSS47, PRSS48, PRSS50, PRSS53, PRSS54, PRSS55, PRSS56, PRSS57, PRSS58, PRSS8, PRTFDC1, PRTG, PRTN3, PRUNE1, PRUNE2, PRX, PRXL2A, PRXL2B, PRXL2C, PRY, PRY2, PSAP, PSAPL1, PSAT1, PSCA, PSD, PSD2, PSD3, PSD4, PSEN1, PSEN2, PSENE1, PSG1, PSG11, PSG2, PSG3, PSG4, PSG5, PSG6, PSG7, PSG8, PSG9, PSIP1, PSKH1, PSKH2, PSMA1, PSMA2, PSMA3, PSMA4, PSMA5, PSMA6, 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