

**The Appendix is an integral part of
Certificate of Accreditation No. 629/2021 of 02/12/2021**

Accredited entity according to ČSN EN ISO 15189:2013:

GHC GENETICS, s.r.o.
GHC GENETICS Laboratory
V Holešovičkách 1156/29, 182 00 Praha 8

The Laboratory has a flexible scope of accreditation permitted as detailed in the Annex. Updated list of activities provided within the flexible scope of accreditation is available at the Laboratory from the Laboratory Quality Manager.

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
816 - Medical Genetics Laboratory			
1.	Molecular genetic examination of PAI-1 gene I/D mutation by Melting Curve Genotyping method [MCG]	SOP-316	Uncoagulable venous blood, buccal smear
2.	Reserved		
3.	Molecular genetic examination of gene mutations ¹⁾ by Real-Time PCR method	SOP-701	Uncoagulable venous blood, buccal smear
4.	Molecular genetic examination of gene duplications and deletions ²⁾ by Multiplex Ligation-dependent Probe Amplification method [MLPA]	SOP-702	Uncoagulable venous blood, buccal smear
5.	Molecular genetic examination of genes ³⁾ by massive parallel sequencing method	SOP-703	Uncoagulable venous blood, buccal smear
6.	Molecular genetic examination for the detection of disease predisposing HLA alleles ⁴⁾ by strip assay method	SOP-704	Uncoagulable venous blood, buccal smear
7.	Molecular genetic examination of CFTR gene mutations ⁵⁾ by fragment analysis method	SOP-418	Uncoagulable venous blood, buccal smear
8.	Molecular genetic examination of gene mutations ⁶⁾ by fragment analysis method	SOP-705	Uncoagulable venous blood, buccal smear

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
802 – Medical microbiology			
1.	Detection of SARS-CoV-2 ⁷⁾ by RT-PCR method	SOP-706	Nasopharyngeal and oropharyngeal swabs, saliva

Annex:

Flexible scope of accreditation

Examination procedure ordinal numbers
<i>Field 816:3 - 6, 8; Field 802:1</i>

The Laboratory is allowed to modify the examination procedures listed in the Annex within the specified scope of accreditation provided the measuring principle is observed.

The flexible approach to the scope of accreditation cannot be applied to the examinations not included in the Annex.

Primary sample collection:

Ordinal number	Primary sample collection procedure name	Primary sample collection procedure identification	Primary sample
1.	Biological sample collection	SOP-521	Peripheral blood
2.	Biological sample collection	SOP-522	Buccal smear

Explanatory notes

¹⁾ Mutations detected by the Real-Time PCR method: G1691A in Factor V gene, G20210A in Factor II gene, C677T in MTHFR gene, A1298C in MTHFR gene; c.181T>G, c.213-12A>G, c.5266dupC, c.68_69del2, c.1687C>T, c. 843_846del4, c. 4243delG in *BRCA1* gene, c.8537_8538del2, c.658_659del2, c.3847_3848del2, c.5645C>A in *BRCA2* gene

²⁾ Examination of genes *BRCA1, BRCA2, PALB2, ATM, APC, BARD1, BRIP1, CDH1, CHEK2, EPCAM, MLH1, MSH2, MSH6, MUTYH, NBN, PMS2, PTEN, RAD50, RAD51C, RAD51D, STK11, TP53*

³⁾ Examination of genes *BRCA1, BRCA2, PALB2, ATM, APC, BARD1, BRIP1, CDH1, CHEK2, EPCAM, MLH1, MSH2, MSH6, MUTYH, NBN, PMS2, PTEN, RAD50, RAD51C, RAD51D, STK11, TP53, A2M, A4GALT, A4GNT, AAAS, AADAC, AADA2L, AAGAB, AANAT, AARS, AARS2, AASS, ABAT, ABCA1, ABCA10, ABCA12, ABCA13, ABCA2, ABCA3, ABCA4, ABCB1, ABCB11, ABCB4, ABCB6, ABCB7, ABCC1, ABCC11, ABCC2, ABCC3, ABCC4, ABCC6, ABCC8, ABCC9, ABCD1, ABCD3, ABCD4, ABCG2, ABCG5, ABCG8, ABHD12, ABHD5, ABI3BP, ABL1, ABL2, ABO, ACACA, ACACB, ACAD10, ACAD11, ACAD8, ACAD9, ACADL, ACADM, ACADS, ACADSB, ACADVL, ACAN, ACAT1, ACAT2, ACBD5, ACBD6, ACCS, ACE, ACHE, ACLY, ACO2, ACOX1, ACPI, ACP2,*

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GLRA1, GLRB, GLRX5, GLUL, GLYCTK, GM2A, GMDS, GMPS, GNAI2, GNAI3, GNAQ, GNAS, GNAT1, GNAT2, GNB1L, GNB3, GNE, GNG7, GNMT, GNPAT, GNPTAB, GNPTG, GNRH1, GNRHR, GNS, GOLGA3, GOLGA5, GON4L, GOPC, GORAB, GOSR2, GOT1, GP1BA, GP6, GP9, GPAM, GPATCH8, GPBAR1, GPC3, GPC4, GPC6, GPD1, GPD1L, GPD2, GPHN, GPI, GPIHBP1, GPNMB, GPR1, GPR12, GPR132, GPR139, GPR143, GPR179, GPR37, GPR56, GPR98, GPS1, GPSM2, GPT, GRB10, GREM1, GRHL1, GRHL2, GRHPR, GRIA1, GRIA3, GRID1, GRID2, GRIK1, GRIK2, GRIK4, GRIN1, GRIN2A, GRIN2B, GRIN3A, GRIP1, GRK1, GRK4, GRM1, GRM5, GRM6, GRM7, GRN, GRPR, GRXCRI, GSC, GSE1, GSN, GSPT2, GSR, GSS, GSTA2, GSTA3, GSTM1, GSTM3, GSTO1, GSTP1, GSTT1, GSTZ1, POMGNT2(GTDC2), GTF2H5, GTF2I, GTF2IRD1, GUCA1A, GUCA1B, GUCY2C, GUCY2D, GUCY2F, GUSB, GYG1, GYG2, GYLTL1B, GYPA, GYPC, GYPE, GYS1, GYS2, H6PD, HABP2, HACE1, HADH, HADHA, HADHB, HAL, HAMP, HAND1, HAND2, HAPLN1, HARS, HARS2, HAVCRI, HAX1, HBB, HBD, HBE1, HBM, HCCS, HCFC1, HCN1, HCN2, HCN3, HCN4, HCRT, HCRTR2, HDAC4, HDAC6, HDAC8, HDAC9, HDC, HDGFRP2, HDLBP, HDX, HEATR2, HEPACAM, HEPH, HERC1, HES7, HESX1, HEXA, HEXB, HEY1, HEY2, HFE, HFE2, HGD, HGF, HGSNAT, HIBCH, HIF1A, HIGD2A, HINT1, HIP1, HIST1H2AE, HIST3H3, HK1, HK2, HLA_A, HLA_B, HLA_C, HLA_DQA1, HLA_DQB1, HLA_DRB5, HLA_G, HLCS, HLX, HMBS, HMCN1, HMGA2, HMGCL, HMGCR, HMGCS2, HMHA1, HMMR, HMOX1, HMX1, HMX2, HNF1A, HNF1B, HNF4A, HNMT, HNRNPH3, HNRNPU, HOGA1, HOXA1, HOXA10, HOXA11, HOXA13, HOXA2, HOXA3, HOXA4, HOXB1, HOXB13, HOXB6, HOXB8, HOXC13, HOXD10, HOXD13, HOXD4, HP, HPCAL4, HPD, HPGD, HPRT1, HPS1, HPS3, HPS4, HPS5, HPS6, HPSE2, HR, HRAS, HRG, HSD11B1, HSD11B2, HSD17B10, HSD17B3, HSD17B4, HSD3B1, HSD3B2, HSD3B7, HSF1, HSF4, HSP90AA1, HSPA9, HSPB1, HSPB3, HSPB6, HSPB7, HSPB8, HSPG2, HTN3, HTR1A, HTR1B, HTR2A, HTR2B, HTR2C, HTR3A, HTR3B, HTR3C, HTR7, HTRA1, HTRA2, HTT, HUWE1, HYAL1, HYDIN, HYLS1, IAPP, ICAM1, ICAM4, ICK, ICOS, ID3, ID4, IDH1, IDH2, IDH3B, IDO1, IDS, IDUA, IER3IP1, IFIH1, IFITM3, IFITM5, IFNAR1, IFNAR2, IFNG, IFNGR1, IFNGR2, IFNL4, IFRD1, IFT122, IFT140, IFT172, IFT43, IFT80, IFT88, IGBP1, IGF1, IGF1R, IGF2, IGF2BP2, IGF2R, IGFALS, IGFBP7, IGHMBP2, IGLL1, IGSF1, IHH, IKBIP, IKBKAP, IKBKB, IKBKG, IKZF1, IKZF3, IL10, IL10RA, IL10RB, IL11, IL11RA, IL12B, IL12RB1, IL12RB2, IL13, IL17F, IL17RA, IL18RAP, IL1B, IL1R1, IL1RAPL1, IL1RN, IL20RB, IL21R, IL23R, IL2RA, IL2RG, IL3, IL31RA, IL36RN, IL4, IL4R, IL6, IL6R, IL6ST, IL7R, IL9R, ILDR1, ILK, IMM2L, IMPAD1, IMPDH1, IMPDH2, IMPG2, INF2, ING1, INHA, INMT, INPP5B, INPP5D, INPP5E, INS, INSL3, INSL6, INSR, INVS, IQCB1, IQGAP2, IQGAP3, IQSEC2, IRAK3, IRAK4, IRF1, IRF4, IRF5, IRF6, IRF8, IRGM, IRS1, IRS2, IRS4, IRX4, IRX5, ISCU, ISL1, ISPD, ITCH, ITGA1, ITGA2, ITGA2B, ITGA3, ITGA6, ITGA7, ITGA9, ITGAM, ITGB1, ITGB2, ITGB3, ITGB4, ITGB6, ITIH4, ITIH6, ITK, ITM2B, ITPA, ITPKC, ITPR1, ITS2, IVD, IYD, JAG1, JAG2, JAK2, JAK3, JAM3, JMJD1C, JPH2, JPH3, JRK, JUN, JUNB, JUP, KALI, KALRN, KANK1, KARS, KAT2A, KAT6A, KAT6B, KATNAL2, KBTBD13, KCNA1, KCNA4, KCNA5, KCNA6, KCNAB1, KCNAB2, KCNC3, KCND2, KCND3, KCNE1, KCNE1L, KCNE2, KCNE3, KCNE4, KCNH2, KCNH3, KCNIP4, KCNJ1, KCNJ10, KCNJ11, KCNJ12, KCNJ13, KCNJ2, KCNJ5, KCNJ6, KCNJ8, KCNK18, KCNK3, KCNK9, KCNMA1, KCNMB1, KCNMB4, KCNN2, KCNN3, KCNQ1, KCNQ2, KCNQ3, KCNQ4, KCNQ5, KCNS1, KCNT1, KCNV1, KCNV2, KCTD13, KCTD7, KDM3A, KDM5A, KDM5C, KDM6A, KDM6B, KDR, KEL, KERA, KHDC3L, KHK, KIAA0100, KIAA0196, KIAA0226, KIAA0232, KIAA0319, KIAA1033, KIAA1199, KIAA1279, KIAA1432, KIAA1462, KIAA2022, KIF11, KIF17, KIF1A, KIF1B, KIF21A, KIF22, KIF27, KIF3C, KIF5A, KIF7, KIR2DL3, KIRREL3, KISS1, KISS1R, KIT, KITLG, KL, KLC1, KLF1, KLF10, KLF11, KLF6, KLF8, KLHDC8B, KLHL10, KLHL3, KLHL7, KLHL9, KLK1, KLK12, KLK4, KLKB1, KMT2D, KNG1, KPNA1, KRAS, KRIT1, KRT1, KRT10, KRT12, KRT13, KRT14, KRT16, KRT17, KRT18, KRT2, KRT3, KRT37, KRT38, KRT4, KRT5, KRT6A,

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RAB2A, RAB39B, RAB3GAP1, RAB3GAP2, RAB7A, RAB7L1, RABGGTA, RABL6, RAC1, RAC2, RAD21, RAD21L1, RAD51, RAD51B, RAD52, RAD54B, RAD54L, RAF1, RAG1, RAG2, RAI1, RALGAPA1, RALGDS, RANBP2, RANGRF, RAP1GDS1, RAPSN, RARA, RARS2, RASA1, RASGEF1B, RASGRP1, RASGRP2, RASSF5, RAX, RAX2, RB1, RB1CC1, RBBP8, RBFOX1, RBL1, RBL2, RBM10, RBM15, RBM20, RBM28, RBMXL2, RBP3, RBP4, RBPJ, RC3H1, RCBTB1, RCHY1, RD3, RDH12, RDH5, RDH8, RDX, RECQL4, REEP1, REL, RELN, REN, REPS2, RET, RETN, RFC2, RFT1, RFX2, RFX5, RFX6, RFX8, RFXANK, RFXAP, RGL1, RGMA, RGR, RGS2, RGS5, RGS7, RGS9, RGS9BP, RHAG, RHBDF2, RHCE, RHD, RHO, RHOG, RHOH, RHPN2, RIMS1, RIMS2, RIMS3, RIN2, RIOK2, RIPK4, RIT2, RLBP1, RMDN2, RMND1, RNASEH2A, RNASEH2B, RNASEH2C, RNASEL, RNASET2, RNF113A, RNF135, RNF139, RNF168, RNF170, RNF212, RNF213, RNF219_A1, RNF6, ROBO1, ROBO2, ROBO3, ROCK1, ROGDI, ROM1, ROR2, RORA, ROS1, RP1, RP1L1, RP2, RP9, RPA1, RPA4, RPE65, RPGR, RPGRIP1, RPGRIP1L, RPIA, RPL10, RPL11, RPL24, RPL35A, RPL36, RPL38, RPL5, RPL6, RPN2, RPS15, RPS17L, RPS19, RPS24, RPS26, RPS5, RPS6KA3, RPS6KL1, RPSAP52, RPTOR, RRAS2, RRH, RRM2B, RS1, RSC1A1, RSPH4A, RSPH9, RSPO1, RSPO4, RSR1, RTN2, RTN4R, RTTN, RUNX1, RUNX2, RUNX3, RUVBL1, RXFP2, RXRA, RYK, RYR1, RYR2, SAA1, SACS, SAG, SAGE1, SALL1, SALL4, SAMD9, SAMHD1, SAR1B, SARDH, SARS2, SART3, SAT1, SATB2, SATL1, SBF2, SC5D, SCARB1, SCARB2, SCARF2, SCGB1A1, SCGB3A2, SCLT1, SCN10A, SCN11A, SCN1A, SCN1B, SCN2A, SCN2B, SCN3A, SCN3B, SCN4A, SCN4B, SCN5A, SCN7A, SCN8A, SCN9A, SCNN1A, SCNN1B, SCNN1D, SCNN1G, SCO1, SCO2, SCP2, SCRIB, SCUBE2, SDC3, SDCCAG8, SDHA, SDHAF1, SDHAF2, SDHB, SDHC, SDHD, SEC23A, SEC23B, SEC63, SECISBP2, SELE, SELL, SELP, SELPLG, SEMA3A, SEMA3E, SEMA4A, SEMA4C, SEMA4G, SEMA6D, SEMA7A, SEMG1, SEPNI1, SEPSECS, SEPT12., SEPT5_GP1BB, SEPT7, SERAC1, SERPINA1, SERPINA10, SERPINA3, SERPINA6, SERPINA7, SERPINB11, SERPINB5, SERPINB6, SERPINC1, SERPIND1, SERPINE1, SERPINF1, SERPINF2, SERPING1, SERPINH1, SERPINI1, SERPINI2, SESN2, SETBP1, SETD2, SETD8, SETX, SEZ6, SEZ6L, SEZ6L2, SF3B1, SF3B4, SFRP1, SFTPA1, SFTPA2, SFTPB, SFTPC, SFTPD, SGCA, SGCB, SGCD, SGCE, SGCG, POMK(SGK196), SGSH, SH2B1, SH2B3, SH2D1A, SH3BP2, SH3GL1, SH3PXD2B, SH3TC2, SHANK2, SHANK3, SHARPIN, SHBG, SHFM1, SHH, SHMT1, SHOC2, SHOX, SHOX2, SHROOM3, SHROOM4, SI, SIAE, SIGLEC12, SIGLEC14, SIGMAR1, SIK3, SIL1, SIM1, SIM2, SIPA1, SIPA1L1, SIRT1, SIRT3, SIX1, SIX2, SIX3, SIX5, SIX6, SKI, SLA2, SLC10A1, SLC10A2, SLC11A1, SLC11A2, SLC12A1, SLC12A3, SLC12A6, SLC13A2, SLC14A1, SLC15A1, SLC16A1, SLC16A12, SLC16A2, SLC17A3, SLC17A5, SLC17A8, SLC19A2, SLC19A3, SLC1A1, SLC1A3, SLC1A5, SLC20A2, SLC22A1, SLC22A12, SLC22A18, SLC22A2, SLC22A3, SLC22A4, SLC22A5, SLC22A6, SLC22A9, SLC24A1, SLC24A2, SLC24A5, SLC25A12, SLC25A13, SLC25A15, SLC25A19, SLC25A20, SLC25A22, SLC25A3, SLC25A38, SLC25A39, SLC25A4, SLC26A1, SLC26A10, SLC26A2, SLC26A3, SLC26A4, SLC26A5, SLC26A6, SLC26A9, SLC27A1, SLC27A4, SLC27A5, SLC28A1, SLC28A2, SLC28A3, SLC29A1, SLC29A2, SLC29A3, SLC2A1, SLC2A10, SLC2A2, SLC2A4, SLC2A9, SLC30A10, SLC30A2, SLC30A5, SLC30A8, SLC31A1, SLC33A1, SLC34A1, SLC34A2, SLC34A3, SLC35A1, SLC35C1, SLC35D1, SLC35F3, SLC35G2, SLC36A2, SLC37A4, SLC39A12, SLC39A13, SLC39A4, SLC3A1, SLC40A1, SLC41A1, SLC44A2, SLC45A2, SLC46A1, SLC47A1, SLC47A2, SLC4A1, SLC4A10, SLC4A11, SLC4A3, SLC4A4, SLC4A7, SLC52A1, SLC52A2, SLC52A3, SLC5A1, SLC5A11, SLC5A2, SLC5A5, SLC5A7, SLC6A1, SLC6A11, SLC6A12, SLC6A13, SLC6A14, SLC6A18, SLC6A19, SLC6A2, SLC6A20, SLC6A3, SLC6A4, SLC6A5, SLC6A6, SLC6A8, SLC6A9, SLC7A10, SLC7A11, SLC7A2, SLC7A5, SLC7A7, SLC7A9, SLC9A3, SLC9A3R1, SLC9A6, SLC9A9, SLC01A2, SLC01B1, SLC01B3, SLC01C1, SLC02A1, SLC02B1, SLC05A1, SLFN5, SLIT1, SLIT3, SLITRK1, SLITRK5, SLITRK6, SLURP1, SLX4, SMAD1, SMAD2, SMAD3, SMAD4, SMAD5, SMAD6, SMAD7, SMAD9, SMARCA2, SMARCA4, SMARCAD1, SMARCAL1,

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SMARCB1, SMARCE1, SMC1A, SMC3, SMCHD1, SMG1, SMIM3, SMN2, SMO, SMOC1, SMOC2, SMPD1, SMPD3, SMPX, SMS, SMUG1, SNAI2, SNAP25, SNAP29, SNAPC5, SNCA, SNCAIP, SNCB, SNIP1, SNRK, SNRNP200, SNTA1, SNTB1, SNTG2, SNURF, SNX1, SNX10, SNX3, SOBP, SOCS3, SOD1, SOD2, SOD3, SOGA3, SOHLH1, SORCS1, SORL1, SORT1, SOS1, SOST, SOX10, SOX17, SOX18, SOX2, SOX3, SOX5, SOX6, SOX7, SOX9, SP110, SP7, SP8, SPAG17, SPANXN5, SPAST, SPATA13, SPATA16, SPATA21, SPATA31C1, SPATA7, SPECCI1, SPECC1L, SPEF2, SPG11, SPG20, SPG21, SPG7, SPI1, SPINK1, SPINK5, SPINT2, SPP1, SPR, SPRED1, SPRED2, SPRN, SPRY2, SPRY4, SPSB1, SPTA1, SPTANI, SPTB, SPTBN1, SPTBN2, SPTBN5, SPTLC1, SPTLC2, SQSTM1, SRC, SRCAP, SRD5A2, SRD5A3, SREBF1, SREBF2, SRGAP3, SRI, SRP72, SRPX, SRPX2, SRR, SRY, SSH1, SSPN, SSTR5, SSX7, ST14, ST3GAL1, ST3GAL2, ST3GAL3, ST3GAL4, ST3GAL5, ST3GAL6, ST5, ST6GAL1, ST6GAL2, ST6GALNAC1, ST6GALNAC2, ST6GALNAC3, ST6GALNAC4, ST6GALNAC5, ST6GALNAC6, ST8SIA1, ST8SIA2, ST8SIA3, ST8SIA4, ST8SIA5, ST8SIA6, STAR, STARD9, STAT1, STAT3, STAT4, STAT5B, STEAP3, STIL, STIM1, STK11IP, STK19, STK35, STK36, STK39, STK4, STOX1, STRA6, STRADA, STRC, STS, STT3A, STT3B, STX11, STX16, STXBP1, STXBP2, SUCLA2, SUCLG1, SUCO, SUFU, SULF1, SULT1A1, SULT1C2, SULT2A1, SULT2B1, SULT4A1, SUMF1, SUMO1, SUMO4, SUOX, SUPT16H, SURF1, SUV420H1, SUZ12, SV2B, SYCE2, SYCP3, SYK, SYN1, SYN2, SYNE1, SYNE2, SYNGR1, SYNM, SYNPO, SYNPR, SYP, SYT14, SYT17, SYT2, SYTL3, SYTL5, T, TAAR1, TAAR9, TAB2, TAC3, TACO1, TACR3, TACSTD2, TAF1, TAF15, TAF1C, TAF1L, TAF2, TAL1, TAL2, TALDO1, TAP2, TARDBP, TAS1R1, TAS1R3, TAS2R16, TAS2R3, TAS2R38, TAS2R46, TAT, TAZ, TBC1D23, TBC1D24, TBC1D4, TBC1D9, TBCE, TBK1, TBL1X, TBL1XR1, TBL1Y, TBP, TBX1, TBX10, TBX15, TBX19, TBX2, TBX20, TBX21, TBX22, TBX3, TBX4, TBX5, TBX6, TBXA2R, TBXAS1, TCAP, TCF21, TCF3, TCF4, TCF7L1, TCF7L2, TCIRG1, TCN1, TCN2, TCOF1, TCTE1, TCTE3, TCTN1, TCTN2, TCTN3, TDO2, TDP1, TDRD7, TEAD1, TEC, TECPR2, TECR, TECTA, TEK, TEKT2, TENC1, TENM2, TENM4, TERC, TERT, TET1, TET2, TEX14, TF, TFAM, TFAP2A, TFAP2B, TFB1M, TFE3, TFF1, TFG, TFPI, TFR2, TERC, TG, TGFB1, TGFB2, TGFB3, TGFB1, TGFB1, TGFB2, TGFB3, TGIF1, TGM1, TGM2, TGM5, TGM6, TH, THAP1, THBD, THBS1, THBS2, THOC2, THPO, THRA, THRB, THSD7A, TICAM1, TIMM44, TIMM8A, TIMP3, TINAG, TINF2, TIRAP, TJP2, TK2, TLL1, TLR1, TLR2, TLR3, TLR4, TLR5, TLR6, TLR9, TLX1, TLX2, TLX3, TM4SF19, TMC1, TMC6, TMC8, TMC01, TMEM114, TMEM126A, TMEM127, TMEM135, TMEM138, TMEM165, TMEM173, TMEM187, TMEM216, TMEM231, TMEM237, TMEM43, TMEM5, TMEM67, TMEM70, TMEM8A, TMEM99, TMIE, TMLHE, TMPO, TMPRSS15, TMPRSS3, TMPRSS5, TMPRSS6, TMTC3, TNFRSF10B, TNFRSF11A, TNFRSF11B, TNFRSF13B, TNFRSF13C, TNFRSF1A, TNFRSF1B, TNFRSF9, TNFSF11, TNFSF14, TNFSF4, TNKS, TNNC1, TNNI2, TNNI3, TNNI3K, TNNT1, TNNT2, TNNT3, TNP1, TNR, TNRC6B, TNS3, TNXB, TOP1, TOP2A, TOPORS, TOR1A, TP53BP1, TP53RK, TP63, TP73, TPCN2, TPH1, TPH2, TPK1, TPM1, TPM2, TPM3, TPMT, TPO, TPP1, TPRN, TPTE, TRADD, TRAF3, TRAF3IP2, TRAF6, TRAK1, TRAPPC9, TRDN, TREH, TREM2, TRERF1, TREX1, TRHR, TRIB2, TRIB3, TRIM21, TRIM24, TRIM32, TRIM33, TRIM37, TRIO, TRIOBP, TRIP11, TRIP12, TRIP13, TRMU, TROAP, TROVE2, TRPA1, TRPC3, TRPC4, TRPC6, TRPM1, TRPM2, TRPM3, TRPM4, TRPM6, TRPM7, TRPS1, TRPV1, TRPV3, TRPV4, TRPV5, TRRAP, TSC1, TSC2, TSEN2, TSEN34, TSEN54, TSFM, TSG101, TSHB, TSHR, TSHZ1, TSLP, TSPAN12, TSPAN17, TSPAN7, TSPEAR, TSPO, TSPYL1, TSSC4, TSSK4, TST, TTBK2, TTC19, TTC21B, TTC37, TTC8, TTI2, TLL1, TTN, TTPA, TTR, TUB, TUBA1A, TUBA8, TUBB1, TUBB2B, TUBB3, TUBGCP5, TUBGCP6, TUFM, TULP1, TUSC3, TWIST1, TWIST2, TXNIP, TXNRD2, TYK2, TYMP, TYMS, TYR, TYRO3, TYROBP, TYRP1, UACA, UBA1, UBAC2, UBE2A, UBE2B, UBE2NL, UBE3A, UBE3C, UBIAD1, UBQLN2, UBR1, UBR3, UBR7, UCHL1, UCN, UCP1, UCP2, UCP3, UFD1L, UGCG, UGGT1, UGGT2, UGT1A1, UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT2A1, UGT2B10,

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UGT2B17, UGT2B4, UGT2B7, UGT8, UIMC1, ULK4, UMOD, UMPS, UNC119, UNC13D, UNC5C, UNC5CL, UNC80, UNC93A, UNC93B1, UNG, UNKL, UPB1, UPF3B, UPK3A, UQCRB, UQCRFS1, UQCRQ, UROC1, UROD, UROS, USB1, USF1, USH1C, USH1G, USH2A, USP1, USP15, USP26, USP3, USP46, USP9X, USP9Y, UST, UTF1, UTP14C, UTRN, UVSSA, VAMP7, VANGL1, VANGL2, VAPB, VAX1, VCAMI, VCAN, VCL, VCP, VCX3A, VDR, VEGFA, VEGFC, VHL, VIM, VIPAS39, VKORC1, VLDLR, VMA21, VNN1, VPS13A, VPS13B, VPS33B, VPS35, VPS37A, VPS54, VRK1, VSIG4, VSX1, VSX2, VWF, WAS, WASF3, WBSR17, WDFY3, WDPCP, WDR11, WDR13, WDR19, WDR35, WDR36, WDR4, WDR45, WDR45B, WDR62, WDR65, WDR72, WDR81, WFS1, WHSC1, WIPF1, WISP3, WNK1, WNK4, WNT10A, WNT10B, WNT3, WNT4, WNT5A, WNT7A, WRAP53, WRN, WT1, WWC1, WWOX, WWTR1, XBP1, XDH, XG, XIAP, XK, XKR6, XPA, XPC, XPNPEP2, XPNPEP3, XRCC1, XRCC2, XRCC3, XRCC4, XRCC5, XRCC6, XYLT1, XYLT2, YARS, YARS2, YBX2, YWHAE, YY1, ZAN, ZAP70, ZBTB16, ZBTB18, ZBTB24, ZBTB40, ZBTB41, ZC3H14, ZCCHC12, ZCCHC13, ZCCHC8, ZDHHC15, ZDHHC17, ZDHHC2, ZDHHC9, ZEB1, ZEB2, ZFAT, ZFH3, ZFP36, ZFP36L1, ZFP36L2, ZFP69, ZFP90, ZFPM2, ZFYVE26, ZFYVE27, ZHX3, ZIC2, ZIC3, ZIC4, ZKSCAN5, ZMPSTE24, ZMYM3, ZNF175, ZNF213, ZNF335, ZNF365, ZNF41, ZNF419, ZNF420, ZNF423, ZNF433, ZNF469, ZNF480, ZNF513, ZNF526, ZNF592, ZNF644, ZNF674, ZNF711, ZNF750, ZNF75D, ZNF80, ZNF81, ZPBP, ZPBP2.

4) HLA-B*27, HLA-DQA1, HLA-DQB1

5) Mutations detected in CFTR gene: CFTRdele2,3, E60X, P67L, G85E, 394delTT, 444delA, R117C, R117H, Y122X, 621+1G>T, 711+1G>T, L206W, 1078delT, R334W, R347P, R347H, A455E, I507del, F508del, 1677delTA, V520F, 1717-1G>A, G542X, S549R(T>G), S549N, G551D, R553X, R560T, 1811+1,6kbA>G, 1898+1G>A, 2143delT, 2184delA, 2347delG, W846X, 2789+5G>A, Q890X, 3120+1G>A, 3272-26A>G, R1066C, Y1092X(C>A), M1101K, D1152H, R1158X, R1162X, 3659delC, 3849+10kbC>T, S1251N, 3905insT, W1282X, N1303K

6) Mutations detected by the fragment analysis method in *BRCA1* gene: c.1881_1884del4, c.1938_1947del10, c.1953_1956del4, c.1961delA, c.2068delA, c.2411_2412del2, c.2488_2497dupAAGTATCCAT, c.3018_3021del4, c.3642_3643del2, c.3700_3704delGTAAA, c.3756_3759del4, c.4065_4068del4; in *BRCA2* gene: c.7913_7917del5, c.9403delC, c.9435_9436del2

7) Examined SARS-CoV-2 virus genes: *Endornase, Spike*