

Fosterdiagnostik

Frågeställning/Analys	Vävnad	Kromosomområde Gen	Analys/Metod	Svarstid (dagar)	Rör
Kromosomanalys	CVS	Screening	Kromosomanalys CVS	21	Odlingsmediumrör
Kromosomanalys	Amnion	Screening	Kromosomanalys Amnion	21	Sterilt rör
Mikroarrayanalys vid fosterdiagnostik	CVS	Screening	Mikroarray prenatal	14	Odlingsmediumrör
Mikroarrayanalys vid fosterdiagnostik	Amnion	Screening	Mikroarray prenatal	14	Sterilt rör
Riktad analys	CVS	13,18,21,X,Y	QF-PCR QF-PCR prenatal inkl. MCC	7	Odlingsmediumrör
Riktad analys	Amnion	13,18,21,X,Y	QF-PCR QF-PCR prenatal inkl. MCC	7	Sterilt rör
Riktat test	Blod (maternellt)	13,18,21,X,Y	NIPT	21	BCT Streck rör
Riktat test	Blod (maternellt)	13,18,21,X,Y	NIPT Akut	14	BCT Streck rör
Riktat test	Blod (maternellt)	13,18,21,X,Y	NIPT skickeprov	21	BCT Streck rör
Misstänkt ärftlig sjukdom	CVS	Varierar beroende på frågeställning	Varierar beroende på frågeställning	Varierar beroende på frågeställning	Odlingsmediumrör

Misstänkt ärftlig sjukdom	Amnion	Varierar beroende på frågeställning	Varierar beroende på frågeställning	Varierar beroende på frågeställning	Sterilt rör
Missfall/intrauterin fosterdöd/abortmaterial	Vävnadsbiopsi	Varierar beroende på frågeställning	Varierar beroende på frågeställning	Varierar beroende på frågeställning	Sterilt rör

Konstitutionella förändringar

Kromosomanalys/FISH

Frågeställning/ Analys	Vävnad	Kromosomområde / Gen	Analys/Metod	Svarstid (dagar)	Rör
Akuta frågeställningar	Perifert blod	Varierar beroende på frågeställning	Varierar beroende på frågeställning	Varierar beroende på frågeställning. Vid frågor kontakta läkare på klinisk genetik 018-6122018	Heparin EDTA
Kromosomanalys (Syndromutredning)	Perifert blod	Screening	Kromosomanalys Blod	42	Heparin
Kromosomanalys (Könskromosomutredning)	Perifert blod	Screening	Kromosomanalys Blod	42	Heparin
Kromosomanalys (Infertilitetsutredning)	Perifert blod	Screening	Kromosomanalys Blod	42	Heparin
Kromosomanalys (Ägg-el.spermiedonation)	Perifert blod	Screening	Kromosomanalys Blod	42	Heparin
Kromosomanalys (Upprepade missfall)	Perifert blod	Screening	Kromosomanalys Blod	42	Heparin

Frågeställning/ Analys	Vävnad	Kromosomområde / Gen	Analys/Metod	Svarstid (dagar)	Rör
FISH-analys (Translokationsutredning)	Perifert blod	Riktad region	FISH Konstitutionellt metafas	90# (# vid beställning av unika prober TAT 130 dagar)	Heparin
Riktad analys	Perifert blod	13,18,21,X,Y	FISH Konstitutionellt interfas	7	Heparin

DNA-baserad diagnostik

Frågeställning/ Analys	Vävnad	Kromosomområde / Gen	Analys/Metod	Svarstid (dagar)	Rör
Riktad analys	Perifert blod	13,18,21,X,Y	QF-PCR	7	EDTA
22q11 del/dup syndrom	Perifert blod	22q11	MLPA enkel	56	EDTA
Akondroplasi (Se även FGFR3-relaterad skelettdysplasi)	Perifert blod	FGFR3 (exon 10)	Sangersekvensering FGFR3	56	EDTA
Alport syndrom	Perifert blod	Alport syndrompanel v1, 6 gener (CD15, COL4A3, COL4A4, COL4A5, COL4A6, MYH9)	NGS TWIST In silico panel*	90	EDTA
Amyloidos	Perifert blod	Amyloidospanel v2, 17 gener (APOA1, APOA2, APOA4, APOC2, APOC3, B2M, CST3, EFEMP1, FGA, GSN, LECT2, LYZ, MEFV, MVK, NLRP3, TNFRSF1A, TTR)	NGS TruSeq helgenom In silico panel*	90	EDTA
Angelman syndrom	Perifert blod	15q11.2	MLPA metylering	56	EDTA

Androgenokänslighetssyndrom (AIS)	Perifert blod	AR <i>(inklusive repeatanalys)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Arytmi och kardiomyopati (inkl. ARVC, LQTS, CPVT, kardiomyopati, HCM, DCM)	Perifert blod	Arytmi och kardiomyopatipanel v1, 100 gener <i>(ABCC9, ACADVL, ACTC1, ACTN2, AGL, ALMS1, ALPK3, BAG3, BRAF, CACNA1C, CACNA1D, CALM1, CALM2, CALM3, CASQ2, CBL, CDH2, CPT2, CRYAB, CSRP3, DES, DMD, DNAJC19, DOLK, DSC2, DSG2, DSP, ELAC2, EMD, EYA4, FHL1, FKRP, FKTN, FLNC, GAA, GATA4, GATA5, GJA5, GLA, HCNA4, HRAS, JUP, KCNE1, KCNH2, KCNJ2, KCNQ1, KRAS, LAMP2, LMNA, LZTR1, MAP2K1, MAP2K2, MRAS, MTO1, MYBPC3, MYH7, MYL2, MYL3, MYL4, MYLK3, NF1, NKX2-5, NRAS, PCCA, PCCB, PKP2, PLN, PPA2, PCS, PPP1CB, PRKAG2, PTPN11, RAF1, RASA1, RBM20, RIT1, RYR2, SCN5A, SDHA, SGCD, SHOC2, SLC22A5, SOS1, SOS2, SPRED1, TAZ, TBX20, TCAP, TMEM43, TMEM70, TNNC1, TNNI3, TNNI3K, TNNT2, TPM1, TRDN, TRPM4, TTN, TTR, VCL)</i>	NGS TWIST In silico panel*	90	EDTA
Ataxi (inkl. episodisk ataxi, spastisk ataxi och spinocerebellär ataxi samt repeatanalys för ataxisjukdomar) Panelen inkluderar även det mitokondriella genomet.	Perifert blod	Ataxipanel v1, 222 gener <i>(AAAS, AARS2, ABCB7, ABHD12, ACO2, ADGRG1, ADPRS, AFG3L2, ALG6, ANO10, APTX, ARSA, ATCAY, ATG7, ATM, ATP13A2, ATP1A2, ATP1A3, ATP2B3, ATP7B, ATP8A2, AUH, BBS1, BSDL2, BTD, C19orf12, CA8, CACNA1A, CACNA1G, CAMTA1, CAPN1, CASK, CCDC88C, CEP290, CLCN2, CLN5, CLN6, COA7, COQ2, COQ4, COQ8A, COX20, CP, CSTB, CTBP1, CWF19L1, CYP27A1, CYP7B1, DAB1, DARS2, DNAJC19, DNAJC3, DNAJC5, DNMT1, DOCK3, DPM1, EBF3, EEF2, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, ELOVL4, ELOVL5, EPM2A, ERCC4, EXOSC3, FA2H, FARS2, FBXL4, FDXR, FGF12, FGF14, FLVCR1, FTL, FXN, GBA2, GEMIN5, GFAP, GJC2, GOSR2, GPA1, GRID2, GRM1, HEXA, HEXB, HIBCH, INPP5E, IRF2BPL, ITPR1, KCNA1, KCNA2, KCN3, KCND3, KCNJ10, KCNN2, KIF1A, KIF1C, KIF5A, KIF7, LAMA1, LARS2, LMNB1, LRPPRC, LYST, MAG, MARS2, MECR, MICU1, MLC1, MMACHC, MME, MRE11, MSTO1, MTFMT, MTPAP, MTTP, MVK, NAXE, NDUFAF2, NDUFS7, NDUFV1, NHLRC1, NIPA1, NKX2-1, NKX6-2, NPC1, NUBPL, OGDHL, OPA1, OPA3, OPHN1, OTC, PARS2, PDHA1, PDYN, PEX10, PEX2, PEX6, PGM3, PHYH, PIGS, PIGV, PITRM1, PLA2G6, PMM2, PMPCA, PNKP, PNPLA6, PNPT1, POLG, POLR3A, POLR3B, POU4F1, PRDX3, PRICKLE1, PRKCG, PRNP, PRRT2, PTRH2, PUM1, RNF170, RNF216, RNF220, RORA, SACS, SAMD9L, SCN1A, SCN2A, SCN8A, SCYL1, SETX, SIL1, SLC1A3, SLC20A2, SLC25A46, SLC2A1, SLC44A1, SLC52A2, SLC9A6, SNX14, SPART, SPAST, SPG11, SPG21, SPG7, SPR, SPTBN2, SQSTM1, STUB1, STXBP1, SURF1, SYNE1, SYNGAP1, TDP1, TDP2, TECPR2, TGM6, TINF2, TMEM240, TMEM67,</i>	NGS TruSeq helgenom In silico panel*	90	EDTA

		<p><i>TPP1, TSFM, TTBK2, TTC19, TTC8, TPPA, TUBA1A, TUBB4A, TWNK, UBA5, UCHL1, VLDLR, VPS13D, VPS41, WDR73, WDR81, WFS1, WWOX, XRCC1, ZFYVE26</i></p> <p>Repeatexpansionsanalys av följande gener: <i>ATN1, ATXN1, ATXN2, ATXN3, ATXN7, ATXN8OS, ATXN10, BEAN1, DAB1, CACNA1A, FGF14, FXN, NOP56, PPP2R2B, TBP</i></p>			
Bartter och Gitelman syndrom	Perifert blod	<p>Gitelman, Bartter och Liddle syndrom panel v1, 13 gener</p> <p>(AP2S1, BSND, CASR, CLCNKA, CLCNKB, GNA1, KCNJ1, MAGED2, SCNN1A, SCNN1B, SCNN1G, SLC12A1, SLC12A3)</p>	NGS TWIST In silico panel*	90	EDTA
Beckwith-Wiedemann syndrom	Perifert blod	11p15	MLPA metylering	56	EDTA
Bindvävssjukdomar (bl a Ehlers Danlos syndrom, Marfan syndrom, Loeys-Dietz syndrom och TAAD)	Perifert blod	<p>Bindvävspanel v2, 44 gener</p> <p>(ACTA2, ADAMTS2, ATP7A, B3GALT6, B4GALT7, BGN, C1R, C1S, CBS, CHST14, COL12A1, COL1A1, COL1A2, COL3A1, COL5A1, COL5A2, DSE, EFEMP2, FBN1, FBN2, FKBP14, FLNA, FOXE3, LOX, MAT2A, MED12, MFAP5, MYH11, MYLK, NOTCH1, PLOD1, PRDM5, PRKG1, SKI, SLC2A10, SLC39A13, SMAD2, SMAD3, SMAD4, TGFB2, TGFB3, TGFB1, TGFB2, ZNF469)</p>	NGS TWIST In silico panel*	90	EDTA
Bröstcancer - snabbspår	Perifert blod	<p>Bröstcancerpanel v1, 12 gener</p> <p>(ATM, BARD1, BRCA1, BRCA2, CDH1, CHEK2, PALB2, PTEN, RAD51C, RAD51D, STK11, TP53)</p>	NGS TWIST In silico panel*	28	EDTA
CADASIL	Perifert blod	<i>NOTCH3</i> (Se även cerebraла småkärlssjukdomar)	NGS TWIST In silico panel*	90	EDTA
Cerebraла småkärlssjukdomar (bl.a. Moyamoya, Hereditär hemorragisk telangioktasi, Capillary malformation-arteriovenous malformation (CM-AVM) syndrom, Parkes-Weber syndrom)	Perifert blod	<p>Cerebraла småkärlssjukdomspanel v2, 49 gener</p> <p>(A2ML1, ABCC6, ACTA2, ACVRL1, ANGPTL6, APP, ATP1A2, BRAF, CACNA1A, CBL, CCM2, COL3A1, COL4A1, COL4A2, COLGALT1, CST3, ENG, EPHB4, FOXC1, GDF2, GLA, GUCY1A1, HRAS, HTRA1, KRAS, KRT1, LZTR1, MAP2K1, MAP2K2, NF1, NOTCH3, NRAS, PDCD10, PTPN11, RAF1, RASA1, RASA2, RIT1, RNF213, RRAS, SAMHD1, SHOC2, SLC2A10, SMAD4, SOS1, SOS2, SPRED1, TREX1, YY1AP1)</p>	NGS TWIST In silico panel*	90	EDTA
Charcot-Marie-Tooth (CMT1A)	Perifert blod	<i>PMP22</i> (ingår även i Neuropatipanel)	MLPA enkel	56	EDTA

Cri du Chat syndrom	Perifert blod	5p15	MLPA enkel	56	EDTA
Cri du Chat syndrom	Perifert blod	5p	FISH Konstitutionellt metafas	14	Heparin
Cystisk Fibros	Perifert blod	<i>CFTR</i> (50 mutationer)	Fragmentanalys <i>CFTR</i>	35	EDTA
Cystisk Fibros	Perifert blod	<i>CFTR</i>	NGS TWIST In silico panel*	90	EDTA
DSD (Disorders of sex development)	Perifert blod	DSD Panel v1, 192 gener och två regioner <i>(AARS2, AKR1C2, AKR1C3, AKR1C4, ALDOA, AMH, AMHR2, ANOS1, AR, ARHGAP35, ARX, ATF3, ATRX, BMP15, BMP4, BMP7, BMPR1B, BNC1, BUB1B, C14orf39, CBX2, CCDC141, CDKN1C, CHD7, CLPP, CPE, CTU2, CUL4B, CYB5A, CYP11A1, CYP11B1, CYP11B2, CYP17A1, CYP19A1, CYP21A2, DACH2, DCAF17, DHCR7, DHH, DHX37, DIAPH2, DMRT1, DMRT2, DUSP6, EIF2B4, EIF2B5, EIF4ENIF1, EMX2, ERL1, ERCC6, ESR1, ESR2, FANCM, FEZF1, FGD1, FGF17, FGF8, FGFR1, FGFR2, FIGLA, FKBP4, FLRT3, FMR1, FOXL2, FRAS1, FREM2, FSHB, FSHR, GALT, GATA4, GDF9, GGPS1, GLI2, GNRH1, GNRHR, GRIP1, HAMP, HARS2, HFE, HFM1, HHAT, HNF1B, HOXA13, HOXA4, HOXB6, HS6ST1, HSD17B3, HSD17B4, HSD3B2, HSF2BP, IGSF10, IL17RD, INSL3, KASH5, KHDRBS1, KISS1, KISS1R, KLB, LARS2, LEP, LEPR, LHB, LHCGR, LHX1, LHX3, LHX4, LHX9, LMNA, MAMLD1, MAP3K1, MCM8, MCM9, MEIOB, MID1, MRPS22, MSH4, MSH5, MYRF, NANOS3, NDNF, NOBOX, NOG, NR0B1, NR2F2, NR3C1, NR5A1, NSMF, NUP107, PAX8, PBX1, PCDH17, PCSK1, PGRCMC1, PLXNA3, PMM2, POF1B, POLG, POLR2C, POLR3H, POR, POU5F1, PPP1R12A, PRDM13, PROK2, PROKR2, PROP1, PSMC3IP, RCBTB1, RIPK4, RNF216, RPL10, RSPO1, SAMD9, SEMA3A, SEMA3F, SGO2, SGPL1, SLC29A3, SLC40A1, SOHLH1, SOHLH2, SOX10, SOX11, SOX2, SOX3, SOX8, SOX9, SPIDR, SPRY4, SRD5A2, SRY, STAG3, STAR, STS, SYCE1, SYCP2L, TAC3, TACR3, TCF12, TFR2, TOE1, TP63, TSPYL1, TWNK, VAMP7, WDR11, WNT4, WT1, WWOX, XRCC2, ZFPM2, ZSWIM7 samt 11p13 deletionssyndromet (WAGR) och Xp21.2 duplikationssyndromet)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Duchenne, Becker (DMD/BMD)	Perifert blod	<i>DMD</i>	MLPA dubbel	56	EDTA

Duchenne, Becker (DMD/BMD)	Perifert blod	<i>DMD</i> (se även Neuromuskulär panel)	Sangersekvensering riktad	28	EDTA
Dystoni	Perifert blod	Dystonipanel v1, 67 gener <i>(ACTB, ADAR, ADCY5, ANO3, APTX, ATM, ATP13A2, ATP1A3, ATP7B, BCAP31, C19orf12, CACNA1G, CHMP2B, COASY, COL6A3, CP, CSTB, DCAF17, DDC, DLAT, DNAJC12, FA2H, FBXO7, FITM2, FTL, GCDH, GCH1, GNAL, GNAO1, HEXA, HPCA, HTRA2, KCNMA1, KCTD17, KMT2B, MECR, MIEP, NKX6-2, PANK2, PDE10A, PDGFB, PINK1, PLA2G6, PNKD, PRKN, PRKRA, PRRT2, SERAC1, SGCE, SLC19A3, SLC2A1, SLC30A10, SLC39A14, SLC6A3, SPATA5L1, SPR, SYNJ1, TH, THAP1, TOR1A, TUBB4A, VAC14, VPS13A, VPS13D, WDR45, WDR73, YY1)</i>	NGS TWIST In silico panel*	90	EDTA
Dystrofia myotonika typ 1	Perifert blod	<i>DMPK</i>	Fragmentanalys DMPK	35	EDTA
Ektodermal dysplasi	Perifert blod	Ektodermal dysplasipanel v1, 111 gener <i>(ANTXR1, APCDD1, ARID1A, ARID1B, ATP7A, ATP6V1B2, AXIN2, BCS1L, BMP4, CDH3, CDSN, CLDN1, CSTB, CTNNND1, CTSC, CTSK, DSG4, DSP, EDA, EDA2R, EDAR, EDARADD, EGFR, ERCC2, ERCC3, ERCC8, EVC, EVC2, FGF10, FGFR2, FGFR3, GJA1, GJB2, GJB6, GRHL2, GTF2E2, GTF2H5, HEPHL1, HOXC13, HR, IFT122, IFT140, IFT43, IFT52, IKBKG, INSR, IRF6, JUP, KANK2, KCTD1, KDF1, KREMEN1, KRT14, KRT16, KRT17, KRT25, KRT6A, KRT6B, KRT6C, KRT71, KRT74, KRT83, KRT85, LIPH, LPARG, LRP6, LSS, LTBP3, MBTPS2, MPLKIP, MSX1, NECTIN1, NECTIN4, NFKB1, PAX9, PEX1, PEX6, PIGL, PKP1, POC1A, PORCN, PTH1R, RHOA, RIN2, RNF113A, ROGDI, RPL21, SETBP1, SLC25A24, SMARCA4, SMARCAD1, SMARCB1, SMARCE1, SMOC2, SNRPE, SOX9, SOX18, SPINK5, SREBF1, TBC1D24, TFAP2B, TP63, TRAF6, TRPS1, TRPV3, TSPEAR, UBR1, WDR19, WDR35, WNT10A, WNT10B)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Epidermolysis bullosa (EB)	Perifert blod	Epidermolysis bullosa panel v2, 31 gener <i>(ATP2C1, CAST, CD151, CDSN, CHST8, COL17A1, COL7A1, CSTA, DSG1, DSP, DST, EXPH5, FERMT1, FLG2, ITGA3, ITGA6, ITGB4, KLHL24, KRT1, KRT10, KRT14, KRT2, KRT5, KRT6C, LAMA3, LAMB3, LAMC2, PKP1, PLEC, SERPINB8, TGM5)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Epilepsi Analysen inkluderar även POLG mutationer associerade med Valproat- inducerad leverskada.	Perifert blod	Epilepsipanel v2, 636 gener <i>(AARS1, ABAT, ABCA2, ACOX1, ACTL6B, ADAM22, ADAR, ADARB1, ADGRG1, ADPRS, ADSL, AFF3, AFG3L2*, AGO1, AIMP1, AKT3, ALDH5A1, ALDH7A1, ALG1*, ALG11, ALG13, ALG14, ALG3, ALG6,</i>	NGS TruSeq helgenom In silico panel*	90	EDTA

		<p>ALG8, ALG9, ALKBH8, ALPL, AMACR, AMPD2, AMT, ANKRD11*, AP1G1, AP2M1, AP3B2, AP4B1, AP4S1*, APC2, ARF1, ARF3, ARFGEF1, ARFGEF2, ARG1, ARHGEF9, ARID1B, ARSA, ARV1, ARX, ASA1, ASH1L, ASL, ASNS*, ASPA, ASXL3, ATN1, ATP13A2, ATP1A1, ATP1A2, ATP1A3, ATP5PO, ATP6AP2, ATP6V0A1, ATP6V0A2, ATP6V0C, ATP6V1A, ATP7A, ATRX, BAP1, BCKDHA, BCKDHB, BCS1L, BLTP1, BOLA3, BRAF*, BRAT1, BSCL2, BTD, C12orf57, C2orf69, CACNA1A, CACNA1B, CACNA1C*, CACNA1D, CACNA1E, CACNA1G, CACNA1H, CACNA1I, CACNA2D2, CAD, CAMK2B, CAPRIN1, CARS2, CASK, CC2D2A, CDK19, CDKL5, CELF2, CEP85L, CERS1, CHD2, CHD4, CHD5, CHKA, CHRNA2, CHRNA4, CHRNA7, CHRN8, CIC, CLCN3, CLCN4, CLDN5, CLN3, CLN5, CLN6, CLN8, CLPB, CLTC, CNKS2, CNNM2, CNOT9, CNPY3, CNTNAP2, COG7, COL18A1, COL4A1, COL4A2, COQ2, COQ4, COQ9, CPA6, CPLX1, CREBBP, CRELD1, CSNK2B, CSTB, CTNNA2, CTSD, CTSF, CUL3, CUL4B, CUX2, CYFIP2, CYP27A1, D2HGDH, DBT, DCX, DDC, DDX3X, DEAF1, DEGS1, DENND5A, DEPDC5, DHDDS, DHFR*, DHPS, DHX30, DIAPH1, DLL1, DMXL2, DNAJC5, DNAJC6, DNM1L, DOCK7, DOLK, DPAGT1, DPH5, DPM1, DPYD, DROSHA, DTYMK, DYNC1H1, DYRK1A, EARS2, ECHS1, EEF1A2, EFHC1, EFTUD2, EHMT1, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, EIF2S3, EIF3F, EIF4A2, EMC10, EML1, ENTPD1, EPG5, EPM2A, ESAM, ETHE1, EXOSC3, EXT2, FAR1*, FARS2, FASTKD2, FBXL4, FBXO11, FBXO28, FGF12, FGF13, FGFR3, FKTN, FLNA, FOLR1, FOXG1, FOXRED1, FRMD5, FRRS1L, FUCA1, FUT8, GABBR2, GABRA1, GABRA2, GABRA3, GABRA5, GABRB1, GABRB2, GABRB3, GABRD, GABRG2, GAD1, GALC, GALNT2, GAMT, GBA1, GCH1, GCSH, GFAP, GLB1, GLDC, GLRA2, GLUD1*, GLUL, GM2A, GNAO1, GNAQ, GNB1, GNB5, GOSR2*, GOT2, GPAA1, GPHN, GRIA2, GRIA3, GRIA4, GRIK2, GRIN1, GRIN2A, GRIN2B, GRIN2D, GRM7, GRN, GTPBP2, GTPBP3, GUF1, H3-3A, H3-3B, HACE1, HAX1, HCFC1, HCN1, HCN2, HECTD4, HECW2, HEPACAM, HERC2, HEXA, HEXB, HID1, HMGCL, HNRNPH2, HNRNPR, HNRNPU, HPDL, HRAS, HSD17B10, HSD17B4, HTRA2, IER3IP1, IFIH1, IKBKG, IQSEC2, IRF2BPL, ITPA, KANSL1*, KAT5, KAT8, KCNA1, KCNA2, KCNB1, KCNC1, KCNC2, KCND2, KCNH1, KCNH5, KCNJ10, KCNJ11, KCNK4, KCNMA1, KCNQ2, KCNQ3, KCNQ5, KCNT1, KCNT2, KCTD3, KCTD7, KDM5C, KDM6B, KIF1A, KIF2A, KIF5A, KIF5C, KLHL20, KMT2E, KPTN, KRAS*, LARS1, LETM1, LGI1, LIAS, LMBRD2, LMNB2, MACF1, MADD, MAF, MAP2K1, MAP2K2, MAST4, MBD5, MBOAT7, MDH2, MECP2, MED11, MED12, MED17, MED27, MEF2C, MFF, MFSD8, MINPP1, MLC1, MMACHC, MMADHC, MOCS1*, MOCS2, MOGS, MPDU1, MTHFR, MTHFS, MTOR, NACC1, NAGA, NAGLU, NAPB, NARS1, NARS2, NBEA, NDE1, NDUFA1, NDUFA10, NDUFAF2, NDUFAF5, NDUFS4, NDUFS8, NDUFV1, NECAP1*, NEDD4L, NEUROD2, NEXMIF, NGLY1, NHLRC1, NPC1, NPC2, NPRL2, NPRL3, NR4A2, NRROS, NRXN1, NSD1, NSDHL, NSRP1, NTRK2, NUP214,</p>		
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		<p><i>NUS1, OCLN*, OGDHL, OPHN1, OTUD6B, OTUD7A, OXR1, P4HTM, PABPC1, PACS1, PACS2, PAFAH1B1, PAH, PAK1, PARS2, PCCA, PCCB, PCDH12, PCDH19, PCDHGC4, PCYT2, PDHA1, PDHX, PET100, PGM2L1, PHACTR1, PHGDH, PIDD1, PIGA*, PIGB, PIGC, PIGG, PIGH, PIGK, PIGL, PIGM, PIGN*, PIGO, PIGP, PIGQ, PIGS, PIGT, PIGU, PIGV, PIGW, PIK3R2, PIP5K1C, PLA2G6, PLAA, PLCB1, PLK1, PLP1, PLPB1, PLXNA1, PMM2, PMPCB, PNKP, PNPO, PNPT1*, POLG, POMGNT1, POMT1, PPFIBP1, PPIL1, PPP1R3F, PPP2CA, PPP2R1A, PPP3CA, PPT1, PRDM8, PRICKLE1, PRICKLE2, PRIMA1, PRMT7, PRODH*, PRPF8, PRRT2, PSAP, PTCD3, PTEN*, PTPN23, PTS, PUM1, PURA, QARS1, QDPR, RAB11A, RAB11B, RAB18, RAB39B, RAB5C, RAC3, RALA, RALGAPA1, RARS2, RELN, RFT1, RHEB, RHOBTB2, RMND1*, RNASEH2A, RNASEH2B, RNASEH2C, RNASET2, RNF113A, RNF13, ROGDI, RORA, RORB, RTN4IP1, RTTN, RUSC2, SAMHD1, SARS1, SATB1, SATB2, SCAF4, SCAMP5, SCARB2, SCN1A, SCN1B, SCN2A, SCN3A, SCN8A, SEMA6B, SEPSECS, SERPINI1, SETBP1, SETD1A, SETD1B, SETD5, SGSH, SHQ1, SIK1, SLC12A5, SLC13A5, SLC16A2, SLC19A3, SLC1A2, SLC1A4, SLC25A1, SLC25A12, SLC25A22, SLC2A1, SLC32A1, SLC35A2, SLC35A3, SLC38A3, SLC39A8, SLC45A1, SLC6A1, SLC6A8*, SLC6A9, SLC9A6, SMARCA2, SMARCC2, SMC1A, SMS, SNAP25, SNIP1, SPATA5, SPATA5L1, SPTAN1, SPTBN1, ST3GAL3, ST3GAL5, STAG1, STAMBP, STRADA, STX1B, STXBP1, SUCLA2, SUMF1, SUOX, SURF1, SYN1, SYNGAP1, SYNJ1, SZT2, TAF8, TANGO2, TBC1D24, TBC1D2B, TBCD, TBCK, TBL1XR1*, TCF4, TDP2, TFE3, TIAM1, TIMM50, TMEM222, TMEM63B, TMX2, TNPO2, TPK1, TPP1, TRA2B, TRAK1, TRAPPC12, TRAPPC4, TRAPPC6B, TREX1, TRIM8, TRIT1, TRPM3, TRPM6, TSC1, TSC2, TSEN54, TUBA1A*, TUBB2A*, TUBB2B*, TUBB3*, TUBB4A*, TUBG1*, TUBGCP2, U2AF2, UBA5*, UBAP2L, UBE2A, UBE3A*, UBR7, UFM1, UFSP2, UGDH, UGP2, UNC80, USP18*, VAMP2, VARS1, VPS11, WARS2, WASF1, WDR26, WDR37, WDR45, WDR45B, WDR73, WNK3, WWOX, YIPF5, YWHAG, ZBTB18, ZBTB47, ZDHHC9, ZEB2*, ZNF142, ZNF335</i></p> <p>Repeatexpansionsanalys för följande gener: ARX, ATN1, CSTB</p>			
Familjär hyperkolesterolemia (FH)	Perifert blod	Familjär hyperkolesterolemia v1, 5 gener (APOB, APOE, LDLR, LDLRAP1, PCSK9)	NGS TWIST In silico panel*	90	EDTA
Familjär hypokalciurisk hyperkalciemi (FHH)	Perifert blod	Familjär hypokalciurisk hyperkalciemi v1, 3 gener (AP2S1, CASR, GNA11)	NGS TWIST In silico panel*	90	EDTA

<i>FGFR3</i> -relaterad skelettdysplasi	Perifert blod	<i>FGFR3</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Fragilt-X; FRAXA	Perifert blod	<i>FMR1</i>	Fragmentanalys Fragilt-X	35	EDTA
FXTAS	Perifert blod	<i>FMR1</i>	Fragmentanalys Fragilt-X	35	EDTA
Genotypning	Perifert blod		QF-PCR	35	EDTA
Helexomsekvensering	Perifert blod	Screening	NGS TWIST Exom Trio NGS TWIST Exom Duo NGS TWIST Exom Singleton	90	EDTA
Helgenomsekvensering Inkl. mitokondriella genomet samt repeatexpansionssjukdomar	Perifert blod	Screening	NGS TruSeq Helgenom Trio NGS TruSeq Helgenom Duo NGS TruSeq Helgenom Singleton	90	EDTA
Hereditär hemorragisk telangiaktasi (HHT; Osler-Weber-Rendus syndrom) (bl.a. HHT, Capillary malformation-arteriovenous malformation (CM-AVM) syndrom, Parkes-Weber syndrom)	Perifert blod	Hereditär hemorragisk telangiaktasipanel v1, 6 gener (<i>ACVRL1, ENG, EPHB4, GDF2, RASA1, SMAD4</i>)	NGS TWIST In silico panel*	90	EDTA
Hereditär spastisk paraplegi	Perifert blod	Hereditär spastisk paraplegi panelv1, 87 gener	NGS TWIST In silico panel*	90	EDTA

		(<i>ABCD1, ADAR, AFG3L2, AIMP1, ALDH18A1, ALS2, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, ARG1, ARL6IP1, ATL1, ATP13A2, B4GALNT1, BSCL2, C12orf65, C19orf12, CAPN1, CPT1C, CYP27A1, CYP2U1, CYP7B1, DARS, DDHD1, DDHD2, ENTPD1, ERLIN1, ERLIN2, FA2H, FARS2, FBXO7, FXN, GALC, GBA2, GBE1, GCH1, GJA1, GJC2, GPT2, HACE1, HEXA, HIKESHI, HSPD1, KCNA2, KDM5C, KIDINS220, KIF1A, KIF1C, KIF5A, L1CAM, MAG, NIPA1, NKX6-2, NTSC2, OPA3, PCYT2, PLP1, PNPLA6, POLR3A, PSEN1, RAB3GAP2, REEP1, REEP2, RNASEH2B, RTN2, SACS, SERAC1, SLC16A2, SLC1A4, SLC25A15, SLC2A1, SPART, SPAST, SPG11, SPG21, SPG7, TECPR2, TFG, TUBB4A, UBAP1, UCHL1, VAMP1, WASHC5, WDR45B, ZFYVE26)</i>)			
HNPP, fam. tryckförlamning	Perifert blod	<i>PMP22</i>	MLPA enkel	56	EDTA
Huntingtons sjukdom	Perifert blod	<i>HTT</i> (Huntingtin)	Fragmentanalys HTT (HD)	35	EDTA
Hyperaldosteronism	Perifert blod	Hyperaldosteronismpanel v1, 5 gener (<i>CACNA1H, CLCN2, CYP11B1, CYP11B2, KCNJ5</i>)	NGS TWIST In silico panel*	90	EDTA
Hyperparathyreoidism	Perifert blod	Hyperparathyreoidismpool v2, 8 gener (<i>AP2S1, CASR, CDC73, CDKN1B, GCM2, GNA11, MEN1, RET</i>)	NGS TruSeq helgenom In silico panel*	90	EDTA
Hypofystumör, ärftlig	Perifert blod	Ärftlig hypofystumör v1, 6 gener (<i>AIP, CDKN1B, DICER1, MEN1, NF1, PRKAR1A</i>)	NGS TruSeq helgenom In silico panel*	90	EDTA
Hypogonadotrop hypogonadism (inkl. Kallman syndrom)	Perifert blod	Hypogonadotrop hypogonadismpool v1, 31 gener (<i>ANOS1, CHD7, CUL4B, DCAF17, FEZF1, FGF8, FGFR1, FSHB, GLI2, GNRH1, GNRHR, HAMP, HFE, IL17RD, KISS1R, KLB, LHB, LHX4, NROB1, NSMF, PROK2, PROKR2, PROP1, SLC29A3, SLC40A1, SOX10, SOX2, TAC3, TACR3, TFR2, WDR11</i>)	NGS TWIST In silico panel*	90	EDTA
Hypoparathyreoidism	Perifert blod	Hypoparathyreoidismpool v1, 9 gener (<i>AIRE, CASR, GATA3, GCM2, GNA11, GNAS, PTH, STX16, TBCE</i>)	NGS TWIST In silico panel*	90	EDTA
Hypokondroplasi (Se även <i>FGFR3</i> -relaterad skelettdysplasi)	Perifert blod	<i>FGFR3</i> (exon 9, 12)	Sangersekvensering <i>FGFR3</i>	56	EDTA

Hörselnedsättning	Perifert blod	Hörselnedsättning panel v1, 289 gener <i>(BHD12, ABHD5, ACOX1, ACTB, ACTG1, ADCY1, ADGRV1, AIFM1, ALMS1, AMMECR1, ANKH, ARSG, ATP11A, ATP1A3, ATP2B2, ATP6VOA4, ATP6V1B1, ATP6V1B2, BCS1L, BDP1, BSND, BTD, CABP2, CACNA1D, CATSPER2, CCDC50, CD151, CD164, CDC14A, CDC42, CDH23, CDK9, CEACAM16, CEP250, CEP78, CHD7, CHSY1, CIB2, CISD2, CLDN14, CLDN9, CLIC5, CLPP, CLRN1, COCH, COL11A1, COL11A2, COL2A1, COL4A3, COL4A4, COL4A5, COL4A6, COL9A1, COL9A2, COL9A3, CRYM, DCAF17, DCDC2, DIABLO, DIAPH1, DIAPH3, DLX5, DMXL2, DNMT1, DSPP, EDN3, EDNRA, EDNRB, EFTUD2, EIF3F, ELMOD3, EPS8, EPS8L2, ERAL1, ESPN, ESRRB, EYA1, EYA4, FAM136A, FDXR, FGF3, FGFR2, FGFR3, FITM2, FOXC1, FOXI1, GATA3, GDF6, GIPC3, GJA1, GJB2, GJB3, GJB6, GPSM2, GREB1L, GRHL2, GRXCR1, GRXCR2, GSDME, HARS1, HARS2, HGF, HOMER2, HOXA2, HOXB1, HSD17B4, ILDR1, JAG1, KARS1, KCNE1, KCNJ10, KCNQ1, KCNQ4, KITLG, KMT2D, LARS2, LHFP1L5, LHX3, LMX1A, LOXHD1, LOXL3, LRP2, LRRK51/LRTOMT, MAN2B1, MANBA, MARVELD2, MASP1, MCM2, MEOX1, MET, MGP, MITF, MPZL2, MSRB3, MT-ATP6, MT-ATP8, MT-CO1, MT-CO2, MT-CO3, MT-CYB, MT-ND1, MT-ND2, MT-ND3, MT-ND4, MT-ND4L, MT-ND5, MT-ND6, MT-RNR1, MT-RNR2, MT-TA, MT-TC, MT-TD, MT-TE, MT-TF, MT-TG, MT-TH, MT-TI, MT-TK, MT-TL1, MT-TL2, MT-TM, MT-TN, MT-TP, MT-TQ, MT-TR, MT-TS1, MT-TS2, MT-TT, MT-TV, MT-TW, MT-TY, MYH14, MYH9, MYO15A, MYO18B, MYO3A, MYO6, MYO7A, NAGLU, NARS2, NDP, NDRC1, NEFL, NF2, NLRP3, NOG, NR2F1, OPA1, OSBPL2, OTOA, OTOF, OTOG, OTOGL, P2RX2, PAX1, PAX3, PCDH15, PCGF2, PDE1C, PDZD7, PEX1, PEX26, PEX6, PHYH, PISD, PJVK, PNPT1, POLR1B, POLR1C, POLR1D, POU3F4, POU4F3, PRPS1, PTRPRQ, RAI1, RDX, REST, RIPOR2, RMND1, ROR1, RPS6KA3, S1PR2, SALL1, SALL4, SEMA3E, SERAC1, SERPINB6, SH3TC2, SIX1, SIX2, SIX5, SLC12A2, SLC17A8, SLC19A2, SLC22A4, SLC26A4, SLC26A5, SLC29A3, SLC33A1, SLC44A4, SLC4A11, SLC52A2, SLC52A3, SLITRK6, SMAD4, SMPX, SNAI2, SOX10, SPATA5, SPNS2, STAG2, STRC, SUCLA2, SUCLG1, SYNE4, SYT2, TBC1D24, TBL1X, TBX1, TCOF1, TECTA, TFAP2A, TIMM8A, TJP2, TMC1, TMEM126A, TMEM132E, TMEM43, TMIE, TMPRSS3, TNC, TPRN, TRIOBP, TRMU, TRRAP, TSHZ1, TSPEAR, TUBB4B, TWNK, TYR, UBR1, USH1C, USH1G, USH2A, WBP2, WFS1, WHRN, XYLT2, ZNF469)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Hörselnedsättning	Perifert blod	GJB2 (exon 2), GJB6 (inkl. deletion/duplikationsanalys)	Paket: Sangersekvensering GJB2/ MLPA enkel	56	EDTA

Iktyos, könsbunden	Perifert blod	<i>STS</i>	MLPA enkel	56	EDTA
Iktyos, NGS panel (bl.a. Acral Peeling Skin Syndrome (APSS), Erytrokeratodermia variabilis, (EKV), Harlequin syndrom, könsbunden iktyos, KID syndrom, Sjögren-Larssons syndrom)	Perifert blod	Iktyospanel v2, 70 gener <i>(AARS1, ABCA12, ABHD5, ADAMTS17, ALDH3A2, ALOX12B, ALOXE3, AP1B1, AP1S1, ASPRV1, CASP14, CAST, CDSN, CERS3, CHST8, CLDN1, CLDN10, CSTA, CYP4F22, DOLK, DSG1, DSP, EBP, ELOVL1, ELOVL4, ERCC2, ERCC3, FLG, FLG2, GJA1, GJB2, GJB3, GJB4, GJB6, GTF2E2, GTF2H5, KDSR, KRT1, KRT10, KRT2, LIPN, LORICRIN, MARS1, MBTPS2, MPDU1, MPLKIP, NIPAL4, NSDHL, PEX7, PHGDH, PHYH, PIGL, PNPLA1, POMP, PSAT1, RNF113A, SDR9C7, SERPINB8, SLC27A4, SNAP29, SPINK5, SRD5A3, SREBF1, ST14, STS, SULT2B1, SUMF1, TARS1, TGM1, TGMS)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Infertilitsutredning, POI	Perifert blod	<i>FMR1</i>	Fragmentanalys Fragilt-X	35	EDTA
Infertilitsutredning, CBAVD	Perifert blod	<i>CFTR</i> (50 mutationer)	Fragmentanalys CFTR	35	EDTA
Infertilitsutredning, Mikrodeletion Y	Perifert blod	AZF	Fragmentanalys Mikrodeletion Y	35	EDTA
Kraniosynostos panel (bl.a. Apert syndrom, Crouzon syndrom, Pfeiffer syndrom, Saethre-Chotzen syndrom)	Perifert blod	Kraniosynostospanel v3, 65 gener <i>(ALPL, ASXL1, B3GAT3, CD96, CDC45, CDT1, COLEC11, CYP26B1, EFNA4, EFNB1, ERF, ESCO2, FBN1, FGF9, FGFR1, FGFR2, FGFR3, FREM1, GLI3, GPC3, IFT122, IFT140, IFT43, IGF1R, IL11RA, KAT6A, KAT6B, MASP1, MEGF8, MSX2, NFIA, ORC1, ORC4, ORC6, P4HB, PHEX, POR, PPP3CA, RAB23, RECQL4, RSPRY1, RUNX2, SCARF2, SEC24D, SIX2, SKI, SLC25A24, SMAD2, SMAD3, SMAD6, SOX6, SPECC1L, STAT3, TCF12, TCOF1, TGFB2, TGFB3, TGFBR1, TGFBR2, TMCO1, TWIST1, WDR19, WDR35, ZEB2, ZIC1)</i>	NGS TWIST In silico panel*	90	EDTA
Kortvuxenhetspanel	Perifert blod	Kortvuxenhetspanel v1, 15 gener <i>(ACAN, GH1, GHR, GHRHR, GHSR, IGF1, IGF1R, IGFALS, LHX3, LHX4, NPR2, POU1F1, PROP1, SHOX, SOX3)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Langer-Gideon syndrom	Perifert blod	8q24	MLPA enkel	56	EDTA

Liddle syndrom	Perifert blod	Gitelman, Bartter och Liddle syndrompanel v1, 13 gener <i>(AP2S1, BSND, CASR, CLCNKA, CLCNKB, GNA1, KCNJ1, MAGED2, SCNN1A, SCNN1B, SCNN1G, SLC12A1, SLC12A3)</i>	NGS TWIST In silico panel*	90	EDTA
Makrocefali och övertillväxt	Perifert blod	Makrocefali och övertillväxtpanel v1, 50 gener <i>(AKT1, AKT3, ASPA, ASXL2, BRWD3, CCND2, CDKN1C, CHD8, CUL4B, DHCR24, DIS3L2, DNMT3A, EED, EIF2B5, EZH2, GFAP, GLI3, GPC3, GPSM2, GRIA3, HEPACAM, HUWE1, KDM1A, KIF7, KPTN, L1CAM, MED12, MLC1, MPDZ, NFIB, NFIX, NSD1, OFD1, PIGA, PIK3CA, PIK3R2, PTCH1, PTEN, RAB39B, RNF135, SETD2, SYN1, TMEM94, UPF3B, ZBTB20, MTOR, PDGFRB, RNF125, SUZ12, ZBTB7A)</i>	NGS TWIST In silico panel*	90	EDTA
Meckel syndrom och Joubert syndrom	Perifert blod	Meckel syndrom och Joubert syndrom v1, 38 gener <i>(AHI1, ARL13B, ARMC9, B9D1, B9D2, C5ORF42, CC2D2A, CEP104, CEP120, CEP290, CEP41, CPLANE1, CSPP1, INPP5E, KATNIP, KIAA0586, KIF14, KIF7, MKS1, NPHP1, NPHP3, OFD1, PDE6D, PIBF1, RPGRIP1L, SUFU, TCTN1, TCTN2, TCTN3, TMEM107, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TTC21B, TXND15, ZNF423)</i>	NGS TWIST In silico panel*	90	EDTA
Miller-Dieker syndrom	Perifert blod	17p13.3	MLPA enkel	56	EDTA
Multipel endokrin neopla typ 1 (MEN1)	Perifert blod	<i>MEN1</i>	NGS TWIST In silico panel*	90	EDTA
Multipel endokrin neopla typ 2 (MEN2)	Perifert blod	<i>RET</i>	NGS TWIST In silico panel*	90	EDTA
Myotonia och paramyotonia kongenita panel	Perifert blod	<i>CLCN1, SCN4A</i>	NGS TWIST In silico panel*	90	EDTA
Nefronoftis	Perifert blod	Nefronoftispanel v1, 27 gener <i>(AHI1, ANKS6, CC2D2A, CEP164, CEP290, CEP83, DCDC2, GLIS2, IFT172, INVS, IQCB1, NEK8, NPHP1, NPHP3, NPHP4, OFD1, PKHD1, RPGRIP1L, SDCCAG8, TCTN1, TMEM216, TMEM237, TMEM67, TTC21B, WDR19, XPNPEP3, ZNF423)</i>	NGS TWIST In silico panel*	90	EDTA

Nefrotiskt syndrom	Perifert blod	Nefrotiskt syndrompanel v1, 54 gener <i>(ACTN4, ANLN, APOL1, ARHGAP24, ARHGDIA, CD2AP, CLCN5, COL4A3, COL4A4, COL4A5, COQ2, COQ6, COQ8B, CRB2, CUBN, DGKE, EMP2, FAN1, FN1, INF2, ITGA3, KANK1, KANK2, KANK4, LAGE3, LAMAS, LAMB2, LMX1B, LYZ, MAGI2, MYO1E, NPHS1, NPHS2, NUP107, NUP133, NUP160, NUP205, NUP85, NUP93, OSGEPE, PAX2, PDSS2, PLCE1, PTPRO, SCARB2, SGPL1, SMARCAL1, TBC1D8B, TP53RK, TPRKB, TRIM8, TRPC6, WT1, XPO5)</i>	NGS TWIST In silico panel*	90	EDTA
Neurofibromatos typ1	Perifert blod	NF1, SPRED1	NGS TWIST In silico panel*	90	EDTA
Neuromuskulär panel (bl.a. myotoni, myasteni, DMD, limb girdle, paramyotonia kongenita) Panelen inkluderar även det mitokondriella genomet samt SMA.	Perifert blod	Neuromuskulär panel v1, 129 gener <i>(ACTA1, ADSS1, AGRN, ALG14, ALG2, AMPD1, ANO5, ATP2A1, B3GALNT2, B4GAT1, BAG3, BIN1, CACNA1S, CAPN3, CASQ1, CAV3, CCDC78, CFL2, CHAT, CHKB, CHRNA1, CHRNBI, CHRND, CHRNE, CLCN1, CNTN1, COL12A1, COL13A1, COL6A1, COL6A2, COL6A3, COLQ, CPT2, CRPPA, CRYAB, DAG1, DES, DMD, DNAJB6, DNM2, DOK7, DPAGT1, DPM1, DPM2, DPM3, DYSF, EMD, FHL1, FKBP14, FKRP, FKTN, FLNC, GAA, GFPT1, GMPPB, GNE, GOSR2, GYG1, GYS1, HACD1, HNRNPA2B1, HNRNPDL, ISCU, ITGA7, KBTBD13, KCNJ2, KLHL40, KLHL41, LAMA2, LAMP2, LARGE1, LDB3, LMNA, LMOD3, MAP3K20, MATR3, MEGF10, MICU1, MTM1, MUSK, MYH2, MYH7, MYL2, MYO18B, MYOT, NEB, ORAI1, PLEC, PNPLA2, POMGNT1, POMGNT2, POMK, POMT1, POMT2, PREPL, PYROXD1, RAPSN, RXYLT1, RYR1, SCN4A, SELENON, SGCA, SGCB, SGCD, SGCG, SLC18A3, SLC5A7, SMCHD1, SPEG, SQSTM1, STAC3, STIM1, SYT2, TAZ, TCAP, TIA1, TK2, TNNT1, TNPO3, TOR1AIP1, TPM2, TPM3, TRAPP11, TRIM32, TTN, VAMP1, VCP, VMA21)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Neuropatipanel (bl.a. Charcot-Marie-Tooth sjukdom, ärftlig tryckkänslig neuropati, hereditär sensorisk och autonom neuropati, transtiretin-medierad amyloidos)	Perifert blod	Neuropatipanel v1, 98 gener <i>(AARS1, AIFM1, APOA1, ASA1, ATL1, ATL3, ATP1A1, ATP7A, BAG3, BICD2, BSC12, CHCHD10, COX6A1, CYP27A1, CYP7B1, DCTN1, DNAJB2, DNM2, DNMT1, DRP2, DST, DYNC1H1, EGR2, EXOSC9, FBLN5, FBXO38, FGD4, FIG4, GAN, GARS1, GDAP1, GJB1, GLA, GNB4, GSN, HARS1, HEXA, HINT1, HMBS, HSPB1, HSPB8, IGHMBP2, INF2, KIF1A, KIF5A, LITAF, LMNA, LRSAM1, MARS1, MCM3AP, MFN2, MME, MORC2, MPZ, MTMR2, NDRG1, NEFH, NEFL, NGF, NTRK1, PDK3, PLEKHG5, PMP2, PMP22, POLG, POLG2, PRDM12, PRPS1, PRX, RAB7A, REEP1, RETREG1, SBF1, SBF2, SCN10A, SCN11A, SCN9A, SEPT9, SH3TC2, SIGMAR1, SLC12A6, SLC25A46, SLC52A2, SLC52A3, SLC5A7, SPG11, SPTLC1, SPTLC2, SURF1, TFG, TRIM2, TRPV4, TTR, UBA1, VAPB, VRK1, WNK1, YARS1)</i>	NGS TWIST In silico panel*	90	EDTA

Obesitas	Perifert blod	Obesitaspanel v1, 52 gener <i>(ADCY3, ALMS1, ARL6, BBIP1, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BDNF, CEP19, CEP290, CFAP418, CPE, CUL4B, DYRK1B, GNAS, IFT172, IFT27, IFT74, KSR2, LEP, LEPR, LZTFL1, MAGEL2, MC3R, MC4R, MKKS, MKS1, MRAP2, MYT1L, NR0B2, NTRK2, PCSK1, PHF6, PHIP, POMC, PPARG, RAB23, RAI1, SDCCAG8, SH2B1, SIM1, TRIM32, TTC8, TUB, UCP3, VPS13B, WDPCP)</i>	NGS TWIST In silico panel*	90	EDTA
Okulär albinism	Perifert blod	Okulär albinismpanel v1, 32 gener <i>(AP3B1, AP3D1, BLOC1S3, BLOC1S5, BLOC1S6, CACNA1F, DCT, DTNBP1, EDN3, EDNRB, FRMD7, GPR143, HPS1, HPS3, HPS4, HPS5, HPS6, LRMDA, LYST, MC1R, MITF, MLPH, MYO5A, OCA2, PAX3, PAX6, RAB27A, SLC24A5, SLC38A8, SLC45A2, TYR, TYRP1)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Optikusatrofi Panelen inkluderar även det mitokondriella genomet.	Perifert blod	Optikusatropifpanel v1, 86 gener <i>(ACO2, AFG3L2, ALPK1, ATAD3A, ATG7, AUH, C19orf12, CISD2, DNAJC19, DNAJC30, DNM1L, EPRS1, FDXR, ISCA2, MECR, MFF, MFN2, MGME1, MT-ATP6, MT-ATP8, MT-CO1, MT-CO2, MT-CO3, MT-CYB, MT-ND1, MT-ND2, MT-ND3, MT-ND4, MT-ND4L, MT-ND5, MT-ND6, MT-RNR1, MT-RNR2, MT-TA, MT-TC, MT-TD, MT-TE, MT-TF, MT-TG, MT-TH, MT-TI, MT-TK, MT-TL1, MT-TL2, MT-TM, MT-TN, MT-TP, MT-TQ, MT-TR, MT-TS1, MT-TS2, MT-TT, MT-TV, MT-TW, MT-TY, MTPAP, MTRFR, SSBP1, NARS2, NBAS, NDUFA12, NDUFAF3, NDUFS1, NR2F1, OPA1, OPA3, PDSS1, POLG, PRPS1, RTN4IP1, SLC19A2, SLC19A3, SLC25A46, SLC44A1, SLC52A2, SNX10, SPG7, SUCLA2, TFG, TIMM8A, TMEM126A, TSFM, UCHL1, WFS1, YME1L1, ZNHIT3</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Osteogenesis imperfecta och benskörhet	Perifert blod	Osteogenesis imperfecta och benskörhetspanel v1, 67 gener <i>(ALPL, ANO5, ASC1, B3GAT3, B4GALT7, BMP1, CA2, CLCN5, CLCN7, COL1A1, COL1A2, CREB3L1, CRTAP, CTNS, CTSK, CYP27B1, CYP2R1, DMP1, ENPP1, FAH, FAM20C, FGF23, FGFR1, FKBP10, GNAS, GORAB, IFITM5, LRPS5, LRRK1, MBTPS2, MESD, NBAS, NOTCH2, NTRK1, OCRL, OSTM1, P3H1, P4HB, PHEX, PLOD2, PLS3, PPIB, SEC24D, SERPINF1, SERPINH1, SFRP4, SGMS2, SLC29A3, SLC2A2, SLC34A1, SLC34A3, SNX10, SP7, SPARC, SUCO, TAPT1, TCIRG1, TENT5A, TMEM38B, TNFRSF11A, TNFRSF11B, TNFSF11, TRIP4, VDR, WNT1, WNT3A, XYLT2)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Pachyonychia congenita		Pachyonychia congenita v1, 19 gener	NGS TruSeq helgenom In silico panel*	90	EDTA

		(AAGAB, CARD9, COL7A1, CTSC, DSG1, FZD6, GJB6, JUP, KRT16*, KRT17*, KRT5, KRT6A*, KRT6B*, KRT6C*, MBTPS2, PLCD1, RSPO4, TRPV3, USB1)			
Palmoplantar keratodermi och erytrodermi		Palmoplantar keratodermi och erytrodermi v1, 42 gener (AAGAB, AQP5, CFTR, COG6, COL14A1, CTSC, DSG1, DSP, ENPP1, GJA1, GJB2, GJB4, GJB6, GRHL2, JUP, KANK2, KRT1, KRT14, KRT16, KRT1, KRT6A, KRT6B, KRT6C, KRT9, LORICRIN, LSS, MBTPS2, MPZ, MT-TS1, PERP, PKP1, RHBDF2, RSPO1, SASH1, SERPINA12, SERPINB7, SLURP1, SMARCAD1, SNAP29, TAT, TRPV3, WNT10A)	NGS TruSeq helgenom In silico panel*	90	EDTA
Paragangliom och feokromocytom	Perifert blod	Paragangliom och feokromocytom panel v2, 17 gener (DLST, EGLN1, EPAS1, FH, MAX, MDH2, MEN1, NF1, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, SLC25A11, TMEM127, VHL)	NGS TruSeq helgenom In silico panel**	90	EDTA
Periodisk paralyspanel	Perifert blod	Periodisk paralyspanel v 1, 4 gener (CACNA1S, CLCN1, KCNJ2, SCN4A)	NGS TWIST In silico panel*	90	EDTA
Periodiskt febersyndrom	Perifert blod	Periodisk febersyndrompanel v1, 14 gener (ADA2, ELANE, LPIN2, MEFV, MVK, NLRC4, NLRP12, NLRP3, POMP, PSMB4, PSMB8, PSTPIP1, TNFRSF1A, TRNT1)	NGS TWIST In silico panel*	90	EDTA
POLG-relaterad sjukdom	Perifert blod	POLG	NGS TWIST In silico panel*	90	EDTA
Polycystisk njursjukdom	Perifert blod	Polycystisk njursjukdomspanel v1, 13 gener (DNAJB11, DZIP1L, GANAB, HNF1B, JAG1, LRP5, NOTCH2, PKD1, PKD2, PKHD1, PRKCSH, SEC61A1, SEC63)	NGS TWIST In silico panel*	90	EDTA
Prader-Willi syndrom	Perifert blod	15q11.2	MLPA metylering	56	EDTA
Primär ciliär dyskinesi (PCD)	Perifert blod	PCD panel v1, 42 gener (CCDC103, CCDC39, CCDC40, CCDC65, CCNO, CENPF, CEP164, CFAP298, CFAP300, CFTR, DNAAF1, DNAAF2, DNAAF3, DNAAF4, DNAAF5, DNAAF11, DNAH1, DNAH11, DNAH5, DNAH8, DNAH9, DNAI1, DNAI2, DNAJB13, DRC1, FOXJ1, GAS8, LRRC56, MCIDAS, ODAD1, ODAD2, ODAD3, ODAD4, OFD1, PHOX2B, RSPH1, RSPH3, RSPH4A, RSPH9, SPAG1, SPEF2, ZMYND10)	NGS TWIST In silico panel*	90	EDTA

RASopatier (bl.a. CFC, Costello syndrom, Noonan syndrom, Legius syndrom, NF1)	Perifert blod	RASopatipanel v3, 30 gener <i>(ACTB, ACTG1, BRAF, CBL, CDC42, FBXW11, HRAS, KAT6B, KRAS, LZTR1, MAP2K1, MAP2K2, MAPK1, MRAS, NF1, NRAS, NSUN2, PPP1CB, PTPN11, RAF1, RASA2, RIT1, RRAS, RRAS2, SHOC2, SOS1, SOS2, SPRED1, SPRED2, SYNGAP1)</i>	NGS TWIST In silico panel* NGS TruSeq helgenom In silico panel*	90	EDTA
Retinal degeneration	Perifert blod	Retinal degenerationpanel v1, 365 gener <i>(ABCA4, ABCC6, ABCD1, ABHD12, ACBD5, ACO2, ADAM9, ADAMTS18, ADGRV1, ADIPOR1, AGBL5, AH1, AIPL1, AIRE, ALMS1, ALPK1, AMACR, ARHGEF18, ARL13B, ARL2BP, ARL3, ARL6, ARMC9, ARR3, ARSG, ATF6, ATOH7, B9D1, B9D2, BBIP1, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BEST1, C1QTNF5, CA4, CABP4, CACNA1F, CACNA2D4, CAPN5, CC2D2A, CDH23, CDH3, CDHR1, CEP104, CEP120, CEP164, CEP19, CEP250, CEP290, CEP41, CEP78, CEP83, CERKL, CFAP410, CFAP418, CHM, CIB2, CISD2, CLN3, CLN5, CLN6, CLN8, CLRN1, CNGA1, CNGA3, CNGB1, CNGB3, CNMM4, COL11A1, COL11A2, COL18A1, COL2A1, COL4A1, COL9A1, COL9A2, COL9A3, COQ2, CPE, CPLANE1, CRB1, CRPPA, CRX, CSPP1, CTC1, CTNNA1, CTNNB1, CTSD, CWC27, CYP4V2, DHDDS, DHX38, DNAJC5, DRAM2, DTHD1, DYNC2H1, EFEMP1, ELOVL4, EMC1, ESPN, EXOSC2, EYS, FAM161A, FDXR, FLVCR1, FRMD7, FZD4, GNAT1, GNAT2, GNB3, GNPTG, GPR143, GPR179, GRK1, GRM6, GUCA1A, GUCY2D, HGSNAT, HK1, HMX1, IDH3A, IDH3B, IFT140, IFT172, IFT27, IFT74, IFT81, IMPDH1, IMPG1, IMPG2, INPP5E, INV5, IQCB1, JAG1, KATNIP, KCNJ13, KCNV2, KIAA0586, KIAA0753, KIAA1549, KIF11, KIF7, KIZ, KLHL7, LAMA1, LCA5, LRAT, LRIT3, LRP2, LRP5, LZTFL1, MAK, MED12, MERTK, MFN2, MFRP, MFSD8, MKKS, MKS1, MMACHC, MT-ATP6, MT-ATP8, MT-CO1, MT-CO2, MT-CO3, MT-CYB, MT-ND1, MT-ND2, MT-ND3, MT-ND4, MT-ND4L, MT-ND5, MT-ND6, MT-RNR1, MT-RNR2, MT-TA, MT-TC, MT-TD, MT-TE, MT-TF, MT-TG, MT-TH, MT-TI, MT-TK, MT-TL1, MT-TL2, MT-TM, MT-TN, MT-TP, MT-TQ, MT-TR, MT-TS1, MT-TS2, MT-TT, MT-TV, MT-TW, MT-TY, MTTP, MVK, MYO7A, NAGLU, NDP, NEK2, NMNAT1, NPHP1, NPHP3, NPHP4, NR2E3, NR2F1, NRL, NYX, OAT, OCA2, OFD1, OPA1, OPA3, OPN1SW, OTX2, P3H2, PANK2, PAX2, PCARE, PCDH15, PCYT1A, PDE6A, PDE6B, PDE6C, PDE6D, PDE6G, PDE6H, PDSS1, PDSS2, PDZD7, PEX1, PEX10, PEX11B, PEX12, PEX13, PEX14, PEX16, PEX19, PEX2, PEX26, PEX3, PEX5, PEX6, PEX7, PHYH, PISD, PITPNM3, PLA2G5, PLK4, PNPLA6, POC1B, POMGNT1, PPT1, PRCD, PRDM13, PROM1, PRPF3, PRPF31, PRPF4, PRPF6, PRPF8, PRPH2, PRPS1, RAB28, RAX2, RBP3, RBP4, RCBTB1, RD3, RDH11, RDH12, RDH5, REEP6, RGR, RGS9, RGS9BP, RHO, RIMS1, RIMS2, RLBP1, ROM1, RP1, RP1L1, RP2, RP9, RPE65, RPGR, RPGRIP1, RPGRIP1L, RS1, RTN4IP1, SAG, SAMD11, SCAPER,</i>	NGS TruSeq helgenom In silico panel*	90	EDTA

		<i>SCLT1, SDCCAG8, SEMA4A, SGSH, SLC24A1, SLC25A46, SLC38A8, SLC45A2, SLC6A6, SLC7A14, SNRNP200, SPATA7, SPP2, SRD5A3, SSBP1, TCTN1, TCTN2, TCTN3, TEAD1, TIMM8A, TIMP3, TLCDB3B, TMEM107, TMEM126A, TMEM138, TMEM216, TMEM218, TMEM231, TMEM237, TMEM67, TOPORS, TPP1, TRAF3IP1, TREX1, TRIM32, TRNT1, TRPM1, TSPAN12, TTC21B, TTC8, TTLL5, TTPA, TUB, TUBB4B, TUBGCP4, TUBGCP6, TULP1, TYR, TYRP1, UNC119, USH1C, USH1G, USH2A, USP45, VCAN, VPS13B, WDPCP, WDR19, WFS1, WHRN, ZNF408, ZNF423, ZNF513)</i>			
Schwannomatos och meningoiom	Perifert blod	Schwannomatos och meningoiompanel v1, 10 gener <i>(LZTR1, MEN1, NF2, PRKAR1A, PTCH1, PTEN, SMARCB1, SMARCE1, SUFU, WRN)</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
SHOX-relaterad kortvuxenhet	Perifert blod	<i>SHOX</i>	NGS TruSeq helgenom In silico panel*	90	EDTA
Silver-Russel syndrom	Perifert blod	11p15	MLPA metylering	56	EDTA
Skelettdysplasi (bred)	Perifert blod	Skelettdysplasipanel v1, 400 gener <i>(ABCC9, ACAN, ACP5, ACVR1, ADAMTS10, ADAMTS17, ADAMTSL2, AFF3, AFF4, AGA, AGPS, AIFM1, ALG12, ALG3, ALG9, ALPL, ALX1, ALX3, ALX4, AMER1, ANKH, ANKRD11, ANO5, ANTXR2, ARCN1, ARHGAP31, ARSB, ARSL, ASCC1, ASXL1, ASXL2, ATP6VOA2, ATR, B3GALT6, B3GAT3, B3GLCT, B4GALT7, BGN, BHLHA9, BMP1, BMP2, BMPER, BMPR1B, BPNT2, C2CD3, CA2, CANT1, CASR, CC2D2A, CCDC8, CCN6, CDC45, CDC6, CDH3, CDKN1C, CDT1, CEP120, CEP152, CEP290, CFAP410, CHST14, CHST3, CHSY1, CLIK1, CLCN5, CLCN7, COG1, COG4, COL10A1, COL11A1, COL11A2, COL1A1, COL1A2, COL27A1, COL2A1, COL9A1, COL9A2, COL9A3, COLEC11, COMP, COPB2, CREB3L1, CREBBP, CriPT, CRTAP, CSF1R, CSGALNACT1, CSPP1, CTSA, CTSC, CTSK, CUL7, CYP27B1, CYP2R1, DDR2, DDRGK1, DHCR24, DHODH, DLL3, DLL4, DLX3, DLX5, DMP1, DOCK6, DONSON, DVL1, DVL2, DVL3, DYM, DYNC2H1, DYNC2I1, DYNC2I2, DYNC2LI1, DYNLT2B, EBP, EFTUD2, EIF2AK3, ENPP1, EOGT, ERF, ESCO2, EVC, EVC2, EXT1, EXT2, EXTL3, EZH2, FAM111A, FAM20C, FBN1, FBN2, FERMT3, FGF10, FGF16, FGF23, FGF9, FGFR1, FGFR2, FGFR3, FIG4, FKBP10, FLNA, FLNB, FN1, FTO, FUCA1, FZD2, GALNS, GALNT3, GDF5, GDF6, GH1, GHR, GHRHR, GHSR, GJA1, GLB1, GLI3, GMNN, GNAS, GNPAT, GNPTAB, GNPTG, GNS, GORAB, GPC6, GPX4, GSC, GUSB,</i>	NGS TruSeq helgenom In silico panel*	90	EDTA

		<i>GZF1, HDAC8, HES7, HGSNAT, HPGD, HSPG2, IARS2, IDS, IDUA, IFIH1, IFITM5, IFT122, IFT140, IFT172, IFT43, IFT52, IFT57, IFT80, IFT81, IGF1, IGF1R, IGF2, IGFALS, IHH, IL1RN, INPPL1, INTU, KAT6B, KIAA0586, KIAA0753, KIF22, KIF7, KL, KMT2A, KMT2D, LBR, LEMD3, LFNG, LHX3, LHX4, LIFR, LMNA, LMX1B, LONP1, LPIN2, LRP4, LRP5, LRRK1, LTBP1, LTBP2, LTBP3, MAFB, MAN2B1, MAP3K7, MATN3, MBTPS1, MBTPS2, MEGF8, MEOX1, MESD, MESP2, MGP, MKS1, MMP13, MMP2, MMP9, MNX1, MSX2, MYCN, MYH3, MYO18B, NAGLU, NANS, NBAS, NEK1, NEU1, NF1, NFIX, NIPBL, NKX3-2, NOG, NOTCH1, NOTCH2, NPR2, NPR3, NSD1, NSDHL, NTRK1, NXN, OBSL1, OCRL, OFD1, ORC1, ORC4, ORC6, OSTM1, P3H1, P4HB, PAM16, PAPSS2, PAX3, PCNT, PCYT1A, PDE3A, PDE4D, PEX5, PEX7, PGM3, PHEX, PIGV, PIK3C2A, PISD, PITX1, PKDCC, PLD2, PLS3, POC1A, POLR1A, POLR1C, POLR1D, POP1, POR, POU1F1, PPIB, PRKAR1A, PROP1, PTDSS1, PTH1R, PTHLH, PTPN11, PYCR1, RAB23, RAB33B, RBBP8, RECQL4, RIPPLY2, ROR2, RPGRIP1L, RSPRY1, RUNX2, SALL1, SALL4, SBDS, SC5D, SEC24D, SERPINF1, SERPINH1, SETBP1, SETD2, SF3B4, SFRP4, SGMS2, SGSH, SH3BP2, SH3PXD2B, SHOX, SKI, SLC10A7, SLC17A5, SLC26A2, SLC29A3, SLC2A2, SLC34A1, SLC34A3, SLC35D1, SLC39A13, SLC02A1, SMAD3, SMAD4, SMARCAL1, SMC1A, SMC3, SNRPC, SNX10, SOST, SOX3, SOX9, SP7, SPARC, SQSTM1, SUCO, SUMF1, TAB2, TAPT1, TBCE, TBX15, TBX4, TBX5, TBX6, TBXAS1, TCIRG1, TCOF1, TCTN3, TENT5A, TGFB1, TGFB2, TGFB2R, TMEM165, TMEM216, TMEM38B, TNFRSF11A, TNFRSF11B, TNFSF11, TONSL, TP63, TRAF3IP1, TRAPPC2, TREM2, TRIP11, TRIP4, TRPS1, TRPV4, TRPV6, TTC21B, TWIST1, TYROBP, UFSP2, VDR, WDR19, WNT1, WNT10B, WNT3A, WNT5A, WNT7A, XRCC4, XYLT1, XYLT2, ZMPSTE24, ZNF687, ZSWIM6)</i>			
Smith-Magenis syndrom	Perifert blod	17p11.2	MLPA enkel	56	EDTA
Sotos syndrom	Perifert blod	<i>NSD1, NFIX</i>	NGS TWIST In silico panel*	90	EDTA
Spinal Muskelatrofi (typ I-III)	Perifert blod	<i>SMN1/2</i>	MLPA enkel	56	EDTA
Syndromutredning Utvecklingsförsening/Autism Intellektuell funktionsnedsättning	Perifert blod	Screening	Mikroarray	56	EDTA

Anlagsbärarutredning för Syndromutredning Utvecklingsförsening/Autism Intellektuell funktionsnedsättning	Perifert blod	Screening	Mikroarray Riktad	56	EDTA
Tanatofor dysplasi (Se även <i>FGFR3</i> -relaterad skelettdysplasi)	Perifert blod	<i>FGFR3</i> (exon 7, 9, 14, 18)	Sangersekvensering <i>FGFR3</i>	56	EDTA
Trombocytopeni	Perifert blod	Trombocytopenipanel v2, 127 gener (<i>ABCG5</i> , <i>ABCG8</i> , <i>ACD</i> , <i>ACTN1</i> , <i>ADA</i> , <i>ADAMTS13</i> , <i>ANKRD26</i> , <i>ANO6</i> , <i>AP3B1</i> , <i>BLOC1S3</i> , <i>BLOC1S6</i> , <i>BRCA2</i> , <i>CTC1</i> , <i>CTLA4</i> , <i>CYCS</i> , <i>DDX41</i> , <i>DIAPH1</i> , <i>DKC1</i> , <i>DNAJC21</i> , <i>DTNBP1</i> , <i>EFL1</i> , <i>ERCC4</i> , <i>ERCC6L2</i> , <i>ETV6</i> , <i>F10</i> , <i>F11</i> , <i>F13A1</i> , <i>F13B</i> , <i>F2</i> , <i>F5</i> , <i>F7</i> , <i>F8</i> , <i>F9</i> , <i>FANCA</i> , <i>FANCB</i> , <i>FANCC</i> , <i>FANCD2</i> , <i>FANCE</i> , <i>FANCF</i> , <i>FANCG</i> , <i>FANCI</i> , <i>FANCL</i> , <i>FANCM</i> , <i>FGA</i> , <i>FGB</i> , <i>FGG</i> , <i>FERMT3</i> , <i>FLI1</i> , <i>FYB1</i> , <i>GATA1</i> , <i>GATA2</i> , <i>GF1B</i> , <i>GP1BA</i> , <i>GP1BB</i> , <i>GP6</i> , <i>GP9</i> , <i>HOXA11</i> , <i>HPS1</i> , <i>HPS3</i> , <i>HPS4</i> , <i>HPS5</i> , <i>HPS6</i> , <i>ITGA2B</i> , <i>ITGB3</i> , <i>LIG4</i> , <i>LYST</i> , <i>MAD2L2</i> , <i>MECOM</i> , <i>MYH9</i> , <i>MYSM1</i> , <i>NBEAL2</i> , <i>NHP2</i> , <i>NOP10</i> , <i>P2RY12</i> , <i>PALB2</i> , <i>PARN</i> , <i>PLAU</i> , <i>POT1</i> , <i>PRKACG</i> , <i>RASGRP2</i> , <i>RAD51</i> , <i>RAD51C</i> , <i>RBM8A</i> , <i>RFWD3</i> , <i>RPL11</i> , <i>RPL15</i> , <i>RPL18</i> , <i>RPL23</i> , <i>RPL26</i> , <i>RPL27</i> , <i>RPL31</i> , <i>RPL35</i> , <i>RPL35A</i> , <i>RPL36</i> , <i>RPL5</i> , <i>RPS7</i> , <i>RPS10</i> , <i>RPS15A</i> , <i>RPS19</i> , <i>RPS20</i> , <i>RPS24</i> , <i>RPS26</i> , <i>RPS27</i> , <i>RPS28</i> , <i>RPS29</i> , <i>RTEL1</i> , <i>RUNX1</i> , <i>SBDS</i> , <i>SLFN14</i> , <i>SLX4</i> , <i>SRC</i> , <i>STIM1</i> , <i>STN1</i> , <i>TBXA2R</i> , <i>TBXAS1</i> , <i>TERT</i> , <i>THPO</i> , <i>TINF2</i> , <i>TSR2</i> , <i>TUBB1</i> , <i>UBE2T</i> , <i>VWF</i> , <i>WAS</i> , <i>WIPF1</i> , <i>WRAP53</i> , <i>XRCC2</i> , <i>ZCCHC8</i>)	NGS TWIST In silico panel*	90	EDTA
Tuberös skleros	Perifert blod	<i>TSC1</i> , <i>TSC2</i>	NGS TWIST In silico panel*	90	EDTA
Tyroideahormonresistens	Perifert blod	Tyroideahormonresistenspanel v1, 21 gener (<i>DUOX2</i> , <i>DUOXA2</i> , <i>FOXE1</i> , <i>GNAS</i> , <i>HESX1</i> , <i>IGSF1</i> , <i>NKX2-1</i> , <i>NKX2-5</i> , <i>PAX8</i> , <i>POU1F1</i> , <i>PROP1</i> , <i>SECISBP2</i> , <i>SLC16A2</i> , <i>SLC26A4</i> , <i>SLC5A5</i> , <i>TG</i> , <i>THRA</i> , <i>THR8</i> , <i>TPO</i> , <i>TSHB</i> , <i>TSHR</i>)	NGS TWIST In silico panel*	90	EDTA
Hippel-Lindau (VHL)	Perifert blod	<i>VHL</i>	NGS TWIST In silico panel*	90	EDTA
Welanders distala myopati	Perifert blod	<i>TIA1</i> (exon 13)	Sangersekvensering <i>TIA1</i>	56	EDTA

Williams syndrom	Perifert blod	7q11.23	MLPA enkel	56	EDTA
Wolf-Hirschhorn syndrom	Perifert blod	4p telomer	MLPA enkel	56	EDTA
Ärftlig hematologi	Perifert blod	Ärftlig hematologipanel v1, 215 gener <i>(ABCG5, ABCG8, ACD, ACTN1, ADA, ADAMTS13, AIRE, AK2, ALAS2, ANKRD26, ANO6, AP3B1, ATG2B, ATM, BAP1, BLM, BLOC1S3, BLOC1S6, BRAF, BRCA1, BRCA2, BRIP1, CASP10, CBL, CD27, CD40LG, CDAN1, CDIN1, CDKN2A, CEBPA, CHEK2, CLPB, CSF3R, CTC1, CTLA4, CXCR4, CYCS, DDX41, DIAPH1, DKK1, DNAJC21, DOCK8, DTNBP1, EFL1, EGLN1, ELANE, EPAS1, EPCAM, EPOR, ERCC4, ERCC6L2, ETV6, F10, F11, F13A1, F13B, F2, F5, F7, F8, F9, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAS, FASLG, FERMT3, FGA, FGB, FGG, FLI1, FYB1, G6PC3, GATA1, GATA2, GFI1, GFI1B, GP1BA, GP1BB, GP6, GP9, GSKIP, HAX1, HOXA11, HPS1, HPS3, HPS4, HPS5, HPS6, IKZF1, IL17RA, IL2RG, IRF8, ITGA2B, ITGB3, ITK, JAG1, JAK2, KLF1, KRAS, LIG4, LYST, LZTR1, MAD2L2, MAGT1, MECOM, MLH1, MPL, MSH2, MSH6, MYH9, MYSM1, NBEAL2, NBN, NF1, NF2, NHP2, NOP10, NRAS, P2RY12, PALB2, PARN, PAX5, PIK3CD, PLAU, PML, PMS2, POLD1, POLE, POT1, PRF1, PRKACG, PTEN, PTPN11, RAD51, RAD51C, RAD51D, RAF1, RASGRP2, RBBP6, RBM8A, RFWD3, RIT1, RPL11, RPL15, RPL18, RPL23, RPL26, RPL27, RPL31, RPL35, RPL35A, RPL36, RPL5, RPS10, RPS15A, RPS19, RPS20, RPS24, RPS26, RPS27, RPS28, RPS29, RPS7, RTE1, RUNX1, SAMD9, SAMD9L, SBDS, SDHB, SDHC, SDHD, SEC23B, SH2D1A, SHOC2, SLFN14, SLX4, SOS1, SRC, SRP54, SRP72, STIM1, STN1, TAZ, TBXA2R, TBXAS1, TCIRG1, TERT, THBD, THPO, TINF2, TNFRSF13B, TP53, TSR2, TUBB1, TYK2, UBE2T, UROS, USB1, VHL, VPS13B, VPS45, VWF, WAS, WIPF1, WRAP53, XRCC2, ZCCHC8)</i>	NGS TWIST In silico panel*	90	EDTA

* Sekvensering samt deletions/duplikationsanalys ingår i alla genpaneler (NGS TWIST In silico panel).

Alla genpaneler baserade på NGS TWIST In silico panel alternativt NGS TruSeq helgenom In silico panel kan expanderas till helexom- respektive helgenomsekvensering av alla sjukdomsassocierade gener. Vänligen skicka ny remiss om så önskas.