

Liste der akkreditierten Verfahren (D-ML_13304-10 und D-ML_23124-01)

Gültig ab: 02.08.2024

Inhaber der Akkreditierungsurkunde(n):

UKGM GmbH (Rudolf-Buchheim-Str. 8, 35392 Gießen) bzw. MVZ UKGM GmbH (Akkreditierungsurkunde noch ausstehend)

mit dem Standort

Zentrum für Humangenetik / MVZ Humangenetik

Baldingerstraße, 35043 Marburg

Untersuchungsgebiet:

Medizinische Laboratoriumsdiagnostik - Humangenetik (Molekulare Humangenetik)

Flexibler Akkreditierungsbereich:

Dem Medizinischen Laboratorium ist innerhalb der gekennzeichneten Untersuchungsbereiche, ohne dass es einer vorherigen Information und Zustimmung der DAkKS bedarf [Flex C], die Modifizierung sowie Weiter- und Neuentwicklung von Untersuchungsverfahren gestattet.

Untersuchungsart:

Molekularbiologische Untersuchungen (Flex C) – Es handelt sich ausschließlich um *in Haus*-Verfahren.

Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
ACMG_Panel (v3.3); Gene: PMID 40568962	EDTA-Blut, DNA	Capture Enrichment (Twist Exome 2.0), Sequencing-by-synthesis, Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0, Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (ThermoFisher)	08.08.25 (23.07.25)
ALS (Amyotrophe Lateralsklerose); Gene: ALS2, ANG, ANXA11, CHCHD10, CHMP2B, DCTN1, FIG4, FUS, HNRNP1, HNRNPA2B1, KIF5A, MAPT, MATR3, NEFH, NEK1, OPTN, PARK7, PFN1, PRPH, SETX, SIGMAR1, SLC52A2, SLC52A3, SOD1, SPG11, SQSTM1, TARDBP, TBK1, TIA1, TRPM7, TUBA4A, UBQLN2, VAPB, VRK1	EDTA-Blut, DNA	Capture Enrichment (Twist Exome 2.0), Sequencing-by-synthesis, Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0, Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	10.09.24 (21.12.23)
Arrhythmien, hereditäre; Gene: ANK2, CACNA1C, CACNA2D1, CACNB2, CALM1, CALM2, CALM3, CASQ2, CAV3, CDH2, CTNNA3, DSG2, DSP, FLNC, GNB5, HCN4, JUP, KCNE1, KCNE2, KCNH2, KCNJ2, KCNJ5, KCNQ1, PKP2, RYR2, SCN10A, SCN1B, SCN3B, SCN5A, SLC22A5, SLC4A3, SNTA1, TANGO2, TECRL, TGFB3, TMEM43, TRDN, TRPM4	EDTA-Blut, DNA	Capture Enrichment (Twist Exome 2.0), Sequencing-by-synthesis, Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0, Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	10.09.24 (08.08.23)

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Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
Ataxien (ohne Repeat-Erkrankungen); Gene: AAAS, ABCB7, ABHD12, ADCY5, ADGRG1, AFG3L2, AMPD2, ANO10, AP1S2, APTX, ARMC9, ARSA, ATCAY, ATG7, ATM, ATP1A2, ATP1A3, ATP2B3, ATP7B, ATP8A2, AUH, B3GALNT2, BRF1, CA8, CACNA1A, CACNA1G, CACNA2D2, CACNB4, CAMTA1, CAPN1, CASK, CHMP1A, CHP1, CLCN2, CLN6, CLP1, COA7, COASY, COG5, COQ4, COQ8A, COQ8B, COX20, CP, CSTB, CWF19L1, CYP27A1, CYP2U1, DAB1, DAGLA, DARS2, DDHD2, DNAJC19, DNAJC5, DNMT1, DYNC1H1, EBF3, EEF2, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, ELOVL4, ELOVL5, EPM2A, ERCC4, EXOSC3, EXOSC8, EXOSC9, FAT2, FGF14, FLVCR1, FOLR1, GALT, GBA2, GDAP2, GFAP, GJC2, GLRA1, GOSR2, GPAA1, GRID2, GRM1, GRN, HEXA, HEXB, IRF2BPL, ITPR1, KCNA1, KCNA2, KCNC3, KCND3, KCNJ10, KCNQ3, KIF1C, LNPB, MARS2, MFN2, MMACHC, MORC2, MRE11, MSTO1, MTPAP, MTTP, MVK, NFASC, NHLRC1, NKX2-1, NKX6-2, NOP56, NPC1, NPC2, NUS1, OPA1, OPA3, OPHN1, PACS2, PAX6, PDYN, PEX16, PEX2, PEX6, PIK3R5, PITRM1, PLA2G6, PMPCA, PMPCB, PNKD, PNKP, PNPLA6, POLG, POLR3A, POLR3K, POU4F1, PPP2R2B, PRDX3, PRICKLE1, PRKCG, PRNP, PRPS1, PRRT2, PTRH2, PUM1, RARS2, RNF170, RNF216, ROBO3, RORA, RUBCN, SACS, SAMD9L, SAR1B, SCN1A, SCN2A, SCN8A, SCYL1, SEPSECS, SETX, SIL1, SLC1A3, SLC25A46, SLC2A1, SLC39A8, SLC52A2, SLC9A1, SLC9A6, SNX14, SPG7, SPR, SPTAN1, SPTBN2, SQSTM1, SRD5A3, STUB1, SYNE1, SYNGAP1, TBC1D23, TDP1, TDP2, TGM6, THG1L, TMEM240, TOE1, TPP1, TSEN2, TSEN54, TTBK2, TTC19, TTPA, TUBA1A, TUBB2B, TUBB3, TUBB4A, TWNK, UBA5, UCHL1, VAMP1, VLDLR, VPS13D, VPS41, VPS53, VRK1, WDR73, WDR81, WFS1, WWOX, XRCC1	EDTA-Blut, DNA	Capture Enrichment (Twist Exome 2.0), Sequencing-by-synthesis, Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0, Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	22.01.24 (01.12.23)
Bannayan-Riley-Ruvalcaba-Syndrom, Gene: AKT1, PIK3CA, PTEN, SEC23B	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1), Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (19.02.24)
Carney-Komplex, Gene: PRKAR1A, STK11	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)
CADASIL und Differenzialdiagnosen; Gene: COL4A1, CTC1, GLA, HTRA1, NOTCH3, TREX1	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0, Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	10.09.24 (22.06.23)

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Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
CMT/HMSN und Differenzialdiagnosen; Gene: AARS1, ABCA1, ABHD12, AIFM1, ALS2, ANG, ARHGEF10, ATL1, ATL3, ATP1A1, ATP7A, BAG3, BICD2, BSCL2, CADM3, CCT5, CHCHD10, CNTNAP1, COA7, COX10, COX6A1, CTD1P1, CYP27A1, DCAF8, DCTN1, DCTN2, DGAT2, DHTKD1, DNAJB2, DNM2, DNMT1, DRP2, DST, DYNC1H1, EGR2, ELP1, FBLN5, FBXO38, FGD4, FIG4, FUS, FXN, GALC, GAN, GARS1, GBF1, GDAP1, GJB1, GLA, GNB4, GSN, HADHA, HADHB, HARS1, HINT1, HK1, HSPB1, HSPB3, HSPB8, HYCC1, IFRD1, IGHMBP2, INF2, ITPR3, JAG1, JPH1, KARS1, KIF1A, KIF1B, KIF5A, KLHL13, LITAF, LMNA, LRSAM1, MARS1, MCM3AP, MED25, MFN2, MME, MORC2, MPV17, MPZ, MTMR2, MTRFR, MYH14, NAGLU, NARS1, NDRG1, NDUFAF5, NEFH, NEFL, NGF, NIPA1, NTRK1, OPTN, PDHA1, PDK3, PEX12, PLEKHG5, PLP1, PMP2, PMP22, PNKP, POLG, POLR3B, PRDM12, PRPS1, PRX, PTRH2, RAB7A, REEP1, RETREG1, SACS, SARS1, SBF1, SBF2, SCN10A, SCN11A, SCN9A, SCO2, SEPTIN9, SETX, SGPL1, SH3TC2, SIGMAR1, SIL1, SLC12A6, SLC25A46, SLC52A2, SLC52A3, SLC5A7, SMAD3, SOD1, SORD, SPAST, SPG11, SPTLC1, SPTLC2, SURF1, SYT2, TARDBP, TECPR2, TNNT2, TRIM2, TRPA1, TRPV4, TTR, TUBB3, TYMP, VAPB, VCP, VWA1, WNK1, YARS1	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0, Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	10.09.24 (14.06.24)
Cowden-Syndrom, Gene: AKT1, PIK3CA, PTEN, SEC23B	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1), Twist Exome 2.0, Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)
Darmkrebs; Gene: EPCAM (NM_002354.3), MLH1 (NM_000249.3), MSH2 (NM_000251.3), MSH6 (NM_000179.3), PMS2 (NM_000535.7), APC (NM_000038.6), BMPR1A (NM_004329.2), MUTYH (NM_001128425.2), NTHL1 (NM_002528.7), POLD1 (NM_001308632.1), POLE (NM_006231.4), PTEN (NM_001304717.5), SMAD4 (NM_005359.6), STK11 (NM_000455.5), CDH1 (NM_004360.5), CHEK2 (NM_007194.4)	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	24.09.24 (11.09.24)
Dystonie hereditär; Gene: ADAR, ADCY5, AFG2B, AFG3L2, ANO3, AOPEP, APTX, ATM, ATP1A2, ATP1A3, ATP7B, BCPAP31, C19orf12, CACNA1A, CHMP2B, COASY, DCAF17, DDC, DLAT, DNAJC12, DRD2, ECHS1, EIF2AK2, FA2H, FASTKD2, FBXO7, FTL, GAMT, GCDH, GCH1, GNAL, GNAO1, HPCA, IRF2BPL, KCNMA1, KCTD17, KIF1C, KMT2B, MECR, NKX2-1, PANK2, PLA2G6, PRKN, PRKRA, PRRT2, SCN8A, SGCE, SLC30A10, SLC39A14, SLC6A3, SPR, TAF1, TH, THAP1, TOR1A, TUBB4A, VAC14, VPS13A, VPS16, YY1	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1), Twist Exome 2.0, Bioinformatik- Pipeline:varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	10.09.24 (14.12.23)
Ehlers-Danlos-Syndrom, klassischer Typ; Gene: COL5A1, COL5A2, COL1A1	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1), Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (08.10.20)

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Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
Ehlers-Danlos-Syndrom, vaskulärer Typ; Gen: <i>COL3A1</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1), Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (08.10.20)
Frontotemporale Demenz; Gene: <i>CCNF, CHCHD10, CHMP2B, CYLD, FUS, GRN, HNRNPA1, HNRNPA2B1, MAPT, OPTN, PSEN1, SQSTM1, TARDBP, TBK1, TIA1, TUBA4A, UBQLN2, VCP</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0, Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	17.09.25 (08.08.25)
Gliedergürtel-Muskeldystrophie/LGMD; Gene: <i>ABHD5, ACADVL, ACTA1, ACTN2, AGL, ANO5, ATP2A1, BAG3, BVES, CAPN3, CASQ1, CAV3, CHRND, CIAO1, CLCN1, COL12A1, COL6A1, COL6A2, COL6A3, COLQ, CPT2, CRPPA, CRYAB, DAG1, DES, DMD, DNAJB6, DNM2, DOK7, DPM3, DYSF, EMD, ETFDH, FHL1, FKRP, FKTN, FLNC, GAA, GBE1, GFPT1, GMPPB, GNE, GYG1, HMGCR, HNRNPDL, LAMA2, LAMP2, LIMS2, LMNA, LPIN1, LRIF1, MATR3, MTM1, MYH14, MYH7, MYOT, NEB, ORAI1, PFKM, PGK1, PHKA1, PLEC, PNPLA2, POGLUT1, POLG, POMGNT1, POMGNT2, POMK, POMT1, POMT2, POPDC3, PYGM, PYROXD1, RAPSN, RYR1, SCN4A, SELENON, SGCA, SGCB, SGCD, SGCG, SMCHD1, STIM1, SYNE1, SYNE2, TCAP, TNNT3, TNPO3, TOR1AIP1, TPM2, TPM3, TRAPPC11, TRIM32, TTN, VCP, VMA21</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0, Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	04.12.24 (26.11.24)
Hyperparathyreoidismus, primär; Gene: <i>CASR, CDC73, CDKN1B, MEN1, RET</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (24.11.21)
Joubert-Syndrom und Differenzialdiagnosen; Gene: <i>ARL13B, ARL3, ARMC9, ATXN10, B9D1, B9D2, C2CD3, CELSR2, CEP41, CEP55, CLANE1, CSPP1, EXOC8, HYL51, IFT172, INPP5E, MKS1, NPHP3, PDE6D, PIBF1, POC1B, SUFU, TCTN1, TCTN3, TMEM107, TMEM138, TMEM237</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	29.05.25 (14.05.25)
Juvenile Makuladegeneration/M. Stargardt; Gene: <i>ABCA4, BEST1, C1QTNF5, CDH3, CFH, CLN3, CNGB3, CRX, CTNNA1, DRAM2, EFEMP1, ELOVL4, FSCN2, IMPG1, IMPG2, IRX1, MFSD8, PROM1, PRPH2, RP1L1, RPGR, TIMP3, TTLL5</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	23.01.25 (18.12.24)

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Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
Lynch-Syndrom (HNPCC) , Gene: <i>MLH1, MSH2, MSH6, PMS2, EPCAM</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (08.10.20)
Kardiomyopathie (v2) ; Gene: <i>AARS2, ABCC9, ACAD9, ACADVL, ACTA1, ACTC1, ACTN2, AGK, AGL, ALMS1, ALPK3, ANK2, ANKRD1, ARSB, ATAD3A, BAG3, BCS1L, BRAF, CACNA1C, CACNA2D1, CACNB2, CALM1, CALM2, CALM3, CASQ2, CAV3, CBL, CDH2, COA5, COA6, COA7, COX10, COX14, COX15, COX20, COX6A1, COX6B1, COX7B, CPT2, CRLS1, CRYAB, CSRP3, CYC1, DES, DMD, DNAJC19, DOLK, DSC2, DSG2, DSP, EMD, EPG5, ETFA, ETFDH, EYA4, FAH, FASTKD2, FHL1, FHOD3, FKRP, FKTN, FLII, FLNC, FNIP1, FOXRED1, GALNS, GATA6, GATAD1, GLA, GLB1, GNB5, GNS, GSN, GUSB, GYG1, HADHA, HADHB, HAMP, HCN4, HFE, HGSNAT, HJV, HRAS, IDH2, IDS, IDUA, JPH2, JUP, KCNE1, KCNE2, KCNH2, KCNJ2, KCNJ5, KCNQ1, KRAS, LAMP2, LDB3, LMNA, LMOD2, LRPPRC, LYRM7, MAP2K1, MAP2K2, MIB1, MLYCD, MMACHC, MRAS, MRPL44, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYLK2, MYLK3, MYOZ2, MYPN, NAA15, NAGLU, NDUFA1, NDUFA10, NDUFA11, NDUFA2, NDUFA4, NDUFA6, NDUFA9, NDUFAF1, NDUFAF2, NDUFAF3, NDUFAF4, NDUFAF5, NDUFAF6, NDUFAF8, NDUFB11, NDUFB3, NDUFB8, NDUFS1, NDUFS2, NDUFS4, NDUFS6, NDUFS7, NDUFS8, NDUFV1, NDUFV2, NEXN, NKX2-5, NONO, NRAP, NRAS, NUBPL, PCCA, PCCB, PDLIM3, PET100, PKP2, PLD1, PLN, PNPLA2, PPA2, PPCS, PPP1CB, PPP1R13L, PRDM16, PRKAG2, PSEN1, PSEN2, PTPN11, RAB3GAP2, RAF1, RASA2, RBM20, RHBDF1, RNF220, RPL3L, RPS6KB1, RRAGC, RRAGD, RYR2, SCN10A, SCN1B, SCN3B, SCN5A, SCO1, SCO2, SDHA, SDHAF1, SDHD, SGCD, SGSH, SHMT2, SHOC2, SLC22A5, SLC25A20, SLC25A4, SLC30A5, SLC40A1, SLC4A3, SLC6A6, SNTA1, SOS1, SOS2, SPEG, SPRED1, SPRED2, SURF1, TACO1, TAFAZZIN, TANGO2, TBX20, TBX5, TCAP, TECL, TFR2, TMEM126B, TMEM43, TMEM70, TNNC1, TNNI3, TNNI3K, TNNT2, TOR1AIP1, TPM1, TRDN, TRIM63, TRPM4, TSFM, TTC19, TTN, TTR, TULP3, UQCC2, UQCRB, VCL</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	10.09.24 (19.03.21)
Katarakt, hereditär ; Gene: <i>ABC6, AGK, BCOR, BFSP1, BFSP2, CHMP4B, COL11A1, COL18A1, COL2A1, COL4A1, COL4A2, CRYAA, CRYAB, CRYBA1, CRYBA4, CRYBB1, CRYBB2, CRYBB3, CRYGB, CRYGC, CRYGD, CRYGS, CTDP1, CYP27A1, EPG5, EPHA2, ERCC1, ERCC2, ERCC5, ERCC6, EYA1, FOXC1, FOXE3, FTL, FYCO1, GALK1, GCNT2, GEMIN4, GJA3, GJA8, GLA, HMX1, HSF4, HYCC1, JAM3, LEMD2, LIM2, LONP1, LSS, LTBP2, MAF, MIP, MYH9, NHS, OPA3, P3H2, PAX6, PITX2, PXDN, RAB18, RAB3GAP1, RAB3GAP2, SIL1, SIPA1L3, SIX6, SLC16A12, SLC33A1, TBC1D20, TDRD7, TMEM114, UNC45B, VIM, VSX2, WFS1</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	15.07.25 (09.07.25)

Liste

Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenommen am (erstellt am)
Kraniosynostosen, hereditär; Gene: <i>ACTB, ACTG1, ADAMTSL4, AHDC1, ALPL, ALX4, ANKH, ARID1B, ARSB, ASXL1, ASXL3, AXIN2, B3GAT3, BCL11B, CDC45, CDK13, CHD5, COLEC11, CTSK, CYP26B1, DDX3X, DPF2, DPH1, EFNB1, ERF, ESCO2, FAM20C, FBX011, FGF10, FGF9, FGFR1, FGFR2, FGFR3, FLNA, FREM1, GLI3, GNAS, GNPTAB, GPC3, HNRNP, HUWE1, IDS, IDUA, IFT122, IFT140, IHH, IL11RA, IL6ST, IRX5, JAG1, KANSL1, KAT6A, KAT6B, KPTN, LTBP1, MAN2B1, MASP1, MEGF8, MSX2, NFIA, NFIX, OGT, P4HB, PHEX, PJA1, POR, PPP1CB, PRRX1, PTCH1, RAB23, RECQL4, RNU12, RSPRY1, RUNX2, SEC24D, SIX1, SKI, SLC25A24, SMAD3, SMAD6, SMO, SOX6, SPECC1L, SPRY1, STAT3, TCF12, TFAP2B, TGFB2, TGFBR2, TLK2, TMC01, TRAF7, TWIST1, WDR35, ZEB2, ZIC1, ZNF462</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	17.09.24 (14.12.23)
Leukodystrophie und Leukoencephalopathie; Gene: <i>AARS1, AARS2, ABCD1, ACBD5, ACO2, ACOX1, ADAR, AIMP1, AIMP2, ALDH3A2, ARSA, ASPA, BCAP31, CLCN2, CLDN11, CNP, CSF1R, CTC1, CYP27A1, DARS1, DARS2, DEGS1, EARS2, EIF2AK2, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, EPRS1, EXOSC8, FOLR1, FUCA1, GALT, GAN, GBE1, GCDH, GFAP, GJA1, GJC2, HEPACAM, HIKESHI, HSD17B4, HSPD1, HTRA1, HYCC1, IFIH1, ISCA2, KCNT1, KIF5A, L2HGDH, LAMA2, LAMB1, LMNB1, LSM11, MCOLN1, MLC1, NAXD, NAXE, NKX6-2, NOTCH3, OCLN, PEX1, PEX10, PEX12, PEX13, PEX14, PEX16, PEX19, PEX2, PEX26, PEX3, PEX5, PEX6, PHYH, PLAA, PLEKHG2, PLP1, POLR1A, POLR1C, POLR3A, POLR3B, POLR3K, PSAP, PYCR2, RAB11B, RNASEH2A, RNASEH2B, RNASEH2C, RNASET2, RNU7-1, SAMHD1, SCP2, SLC16A2, SLC17A5, SLC25A12, SNORD118, SOX10, SPTAN1, STAT2, STN1, SUMF1, TMEM106B, TMEM63A, TREM2, TREX1, TUBB4A, TYROBP, UFM1, VPS11, ZNHIT3</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	17.09.24 (01.02.24)
Magenkarzinom, diffuses; Gene: <i>CDH1, CTNNA1</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (18.11.20)
Makuladystrophie; Gene: <i>ABCA4, BEST1, C1QTNF5, CDH3, CERKL, CFI, CHST6, CNGB3, CRB1, CRX, CTNNA1, DRAM2, EFEMP1, ELOVL4, FSCN2, GUCA1B, HMCN1, IMPG1, IMPG2, KCNV2, MFSD8, NMNAT1, PRDM13, PROM1, PRPH2, RAX2, RBP3, RBP4, RDH12, RDH5, RLBP1, RP1L1, RPGR, RRGRI1, RS1, SIX6, TIMP3</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	11.12.24 (27.11.24)
Makrozephalie; Gene: <i>ABCC9, AKT1, AKT2, AKT3, AMER1, ASPA, BICD2, BLTP1, BRAF, BRWD3, CASK, CBL, CCND2, CDKN1C, CHD3, CHD4, CHD8, CUL4B, DHCR24, DICER1, DIS3L2, DNMT3A, EED, EIF2B5, EZH2, FGFR3, GCDH, GFAP, GLI3, GNAQ, GPC3, GPC4, GPM2, GRIA3, HEPACAM, HERC1, HRAS, HUWE1, INPPL1, ITCH, KDM1A, KIF7, KPTN, KRAS, L1CAM, LZTR1, MAP2K1, MAP2K2, MECP2, MED12, MLC1, MPDZ, MTOR, NF1, NFIA, NFIB, NFIX, NONO, NRAS, NSD1, OFD1, PIK3CA, PIK3R2, POLE, POLR3A, PPP1CB, PPP2R5D, PTCH1, PTEN, PTPN11, RAB39B, RAF1, RASA2, RHEB, RIN2, RIT1, RNF135, ROR2, RRAS, SEC23B, SETD2, SHANK3, SHOC2, SNX14, SOS1, SOS2,</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	17.09.24 (14.12.23)

Liste

SPRED1, STRADA, SUFU, SUZ12, SYN1, TBC1D7, TCF20, TMCO1, TMEM94, UPF3B, WNT5A, ZBTB20, ZDHHC9					
Analyst (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
Mamma- und Ovarialkarzinom (HBOC), 12 Gene: ATM, BRCA1, BRCA2, BRIP1, CDH1, CHEK2, PALB2, RAD51C, RAD51D, PTEN, STK11, TP53	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	30.10.24 (06.09.24)
Mamma- und Ovarialkarzinom (HBOC), 6 Gene: BRCA1, BRCA2, CHEK2, PALB2, RAD51C, ATM	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (04.01.24)
Mamma- und Ovarialkarzinom, Gene: BRCA1, BRCA2	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (28.10.20)
Marfan-Syndrom und Loeys-Dietz-Syndrom, Gene: FBN1, TGFBF1, TGFBF2	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (08.10.20)
Mikrozephalie, hereditär; Gene: AARS1, ACTB, ADARB1, AFG2B, AGMO, AKT3, ANKLE2, AP4B1, AP4E1, AP4M1, AP4S1, ARCN1, ARPC4, ASPM, ATP1A2, ATP6V0A1, ATP6VOC, ATP9A, ATR, ATRX, BCL11A, BLM, BPTF, BRCA2, BRD4, BRIP1, BUB1B, CAMK2B, CASK, CCDC88A, CCND2, CDK5RAP2, CDT1, CENPF, CENPJ, CEP135, CEP152, CEP55, CEP57, CHAMP1, CHKA, CIT, CKAP2L, COASY, COPB1, CPSF3, CREBBP, CRIPT, CSNK2A1, CTCF, CTNNB1, CTSF, CTU2, DDX11, DHCR7, DIAPH1, DNA2, DNMT3A, DOHH, DONSON, DPM1, DPP6, DROSHA, DYNC1I2, DYRK1A, EFTUD2, EIF2S3, EIF5A, EP300, ERCC4, ERCC5, ERCC6, ERCC8, EXOC7, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FOXG1, GMNN, GPT2, GTF2E2, H4C3, HDAC8, HHAT, HMGB1, HPDL, IARS1, IER3IP1, IGF1, IGF1R, KIF11, KIF14, KIF1BP, KNL1, LAGE3, LARP7, LIG4, LMNB1, LMNB2, MCM7, MCPH1, MECP2, MED17, METTL5, MFSD2A, MINPP1, MORC2, MPLKIP, MRE11, MSMO1, MYCN, NAA20, NAPB, NARS, NBN, NCAPD2, NCAPD3, NDE1, NHEJ1, NIPBL, NSD2, NSRP1, NUP107, NUP188, NUP214, ORC1, ORC4, ORC6, OSGEP, PALB2, PCDH12, PCDHGC4, PCNT, PDCD6IP, PDHA1, PLK4, PNKP, POC1A, POGZ, PPIL1, PPP1R15B, PQBP1, PRIM1, PRUNE1, PTPN23, PUF60, PUS7, QARS1, RAD21, RAD50, RAD51, RAD51C, RBBP8, RMI1, RNU4ATAC, RPL10, RRP7A, RTTN, SARS1, SASS6, SLC1A4, SLC25A19, SLC38A3, SLC9A6, SLX4, SMC1A,	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	10.09.24 (24.10.23)

Liste

SMC3, SMG8, STAMBP, STIL, SVBP, TAF13, TBX2, TBX4, TMX2, TNPO2, TOP3A, TP53RK, TRAI, TRAPPC12, TRAPPC14, TRAPPC6B, TRAPPC9, TRIO, TRIP13, TRMT10A, TSEN15, TSEN54, TTC5, TUBG1, TUBGCP2, TUBGCP4, TUBGCP6, UBA5, UBE3A, UFC1, UFM1, UGP2, UNC80, VPS50, VRK1, WDR11, WDR37, WDR4, WDR62, WDR73, XRCC4, YIF1B, YIPF5, ZEB2, ZNF335, ZNF526, ZNF668					
Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
MODY , Gene: <i>ABCC8, APPL1, BLK, CEL, GCK, HNF1A, HNF1B, HNF4A, INS, KCNJ11, KLF11, NEUROD1, PAX4, PDX1, RFX6</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (19.03.21)
Multiple Endokrine Neoplasie Typ 1 /4 , Gene: <i>CDC73, CDKN1B, MEN1</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis); Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (25.08.20)
Multiple Endokrine Neoplasie Typ 2 , Gene: <i>RET</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (25.08.20)
Myopathien, hereditär ; Gene: <i>ABHD5, ACADM, ACADS, ACADVL, ACTA1, ACTN2, ADSS1, AGL, AK9, ALG14, ALG2, AMACR, AMPD1, ANO5, ASCC1, ASCC3, B3GALNT2, B4GAT1, BAG3, BCL11A, BICD2, BIN1, BVES, CACNA1S, CAPN3, CASQ1, CAV3, CAVIN1, CCDC78, CDH8, CFL2, CHAT, CHKB, CHRNA1, CHRN1, CHRN1, CHRN1, CHRN1, CLCN1, CNTN1, COL12A1, COL13A1, COL25A1, COL6A1, COL6A2, COL6A3, COLQ, COX6A2, CPT1A, CPT2, CRPPA, CRYAB, DAG1, DES, DGUOK, DHX16, DMD, DNA2, DNAJB4, DNAJB6, DNM2, DNMT3B, DOK7, DOLK, DPAGT1, DPM1, DPM2, DPM3, DTNA, DYNC1H1, DYSF, ECEL1, EGR2, EMD, EPG5, ETFA, ETFB, ETFDH, EXOSC3, FDX2, FHL1, FKBP14, FKRP, FKTN, FLAD1, FLNC, FXR1, GAA, GARS1, GBE1, GDAP1, GFER, GFPT1, GLA, GLRA1, GLRB, GMPFB, GNE, GYG1, HACD1, HADH, HADHA, HADHB, HINT1, HMGCR, HNRNPA1, HNRNPA2B1, HNRNPDL, HNRNPU, IGHMBP2, ISCU, ITGA7, KANS1, KBTBD13, KIF21A, KLHL40, KLHL41, KLHL9, KY, LAMA2, LAMA5, LAMB2, LAMP2, LARGE1, LAS1L, LDB3, LETM1, LIMS2, LMNA, LMOD3, LPIN1, LRIF1, LRP4, MACF1, MAP3K20, MATR3, MEGF10, MFN2, MGME1, MICU1, MLIP, MPZ, MTM1, MTMR14, MTO1, MTRFR, MUSK, MYBPC1, MYBPC3, MYF5, MYH14, MYH2, MYH3, MYH7, MYL1, MYL2, MYMK, MYO18B, MYOD1, MYOT, MYPN, NEB, NEFL, OBSCN, OPA1, ORAI1, PAX7, PFKM, PGK1, PHOX2B, PIEZO2, PLEC, PNPLA2, POMGNT1, POMK, POMT1, POMT2, PPA2, PREPL, PUS1, PYGM, PYROXD1, RAPS, RBCK1, RNASEH1, RPH3A, RRM2B, RXYLT1, RYR1, RYR3, SBDS, SCN4A, SCO2, SECISBP2,</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	17.09.24 (22.11.23)

Liste

SELENON, SGCA, SGCB, SGCD, SGCE, SGCG, SGCZ, SIL1, SLC18A3, SLC22A5, SLC25A1, SLC25A20, SLC25A26, SLC25A3, SLC25A32, SLC25A4, SLC25A42, SLC5A7, SLC6A5, SMCHD1, SMN1, SNAP25, SPEG, SPG7, SPTBN4, SQSTM1, STAC3, STIM1, SVIL, SYNE1, SYNE2, SYT2, TAFAZZIN, TCAP, TIA1, TK2, TMEM126B, TMEM43, TNNC2, TNNT1, TNNT2, TNNT3, TNPO3, TOR1AIP1, TPM2, TPM3, TRAPPC11, TRDN, TRIM32, TRIP4, TRMT5, TRPV4, TTN, TUBB3, TWNK, TYMP, UBA1, UNC13A, UNC45B, VAMP1, VCP, VMA21, ZC4H2					
Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
Neuroendokrine Tumore / NET; Gene: <i>CDKN1B, MEN1, NF1, POT1, RET, TSC1, TSC2, VHL</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	14.11.24 (01.11.24)
Neurofibromatose Typ 1 / M. Recklinghausen: Gen: <i>NF1</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)
Neurofibromatose Typ 2: Gen: <i>NF2</i>	EDTA-Blut, DNA; DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (02.12.20)
Neuropathie (Typ 1 und Typ 2), hereditär; Gene: <i>AAAS, AARS1, ABCA1, ABHD12, AGTPBP1, AGXT, AIFM1, ANG, AP1S1, APOA1, APTX, ARHGEF10, ARSA, ATL1, ATL3, ATM, ATP1A1, ATP7A, B4GALNT1, BAG3, BCKDHB, BICD2, BSLC2, CADM3, CCT5, CD59, CFAP276, CHCHD10, CNTNAP1, COA7, COX6A1, COX10, CPOX, CTDP1, CYP27A1, DARS2, DCAF8, DCTN1, DCTN2, DEGS1, DGAT2, DHTKD1, DNAJB2, DNAJB5, DNAJC3, DNM2, DNMT1, DRP2, DST, DYNC1H1, EGR2, ELP1, ERCC6, ERCC8, ETFDH, FAH, FBLN5, FBXO38, FGD4, FIG4, FLVCR1, FUS, FXN, GAA, GALC, GAN, GARS1, GBA2, GBF1, GDAP1, GJB1, GJC2, GLA, GNB4, GSN, HADHA, HADHB, HARS1, HINT1, HK1, HMBS, HOXD10, HSPB1, HSPB3, HSPB8, HYCC1, IARS2, IFRD1, IGHMBP2, INF2, ITPR, JAG1, JPH1, KARS1, KCNA2, KIF1A, KIF1B, KIF5A, KLHL13, LITAF, LMNA, LRSAM1, LYST, MARS1, MCM3AP, MED25, MFN2, MMACHC, MME, MORC2, MPV17, MPZ, MTMR2, MTRFR, MTPP, MYH14, NAGA, NAGLU, NARS1, NDRG1, NDUFAF5, NEFH, NEFL, NGF, NHERF1, NIPA1, NTRK1, OPA1, OPA3, OPTN, PDHA1, PDK3, PDXK, PDYN, PEX10, PEX12, PEX7, PHYH, PLEKHG5, PLP1, PMM2, PMP2, PMP22, PNKP, PNPLA6, POLG, POLR3A, POLR3B, PPOX, PRDM12, PRKCG, PRNP, PRPS1, PRX, PTEN, PTRH2, RAB7A, REEP1, RETREG1, SACS, SBF1, SBF2, SCARB2, SCN10A, SCN11A, SCN9A, SCO2, SCYL1, SEPTIN9, SETX, SGPL1, SH3TC2, SIGMAR1, SIL1, SLC12A6, SLC25A19, SLC25A46, SLC52A2, SLC52A3, SLC5A7, SMAD3, SMN1, SOD1, SORD, SOX10, SPAST,</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	17.09.24 (09.08.23)

Liste

SPG11, SPG7, SPTBN4, SPTLC1, SPTLC2, SUCLA2, SURF1, SYT2, TARDBP, TDP1, TECPR2, TFG, TNNT2, TRIM2, TRPA1, TRPV4, TTPA, TTR, TUBB3, TWNK, TYMP, UBA5, VAPB, VCP, VPS13A, VRK1, VWA1, WARS1, WNK1, XK, XPA, XRCC1, YARS1, ZFHX2, ZFYVE26					
Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
Nierenzellkarzinom, hereditär , Gene: <i>BAP1, FLCN, FH, MET, PTEN, SDHB, SDHD, TSC1, TSC2, VHL</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)
Noonan-Syndrom , Gene: <i>PTPN11, BRAF, KRAS, RAF1, RIT1, SOS1</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (18.11.20)
Okuläre Fehlbildungen und Optikushypoplasie ; Gene: <i>ABCB6, ACO2, AFG3L2, ALDH1A3, ALPK1, AP3B2, ATAD3A, ATG7, ATOH7, B3GALNT2, B3GLCT, BCOR, BLOC1S1, BMP4, BRAF, C19orf12, CAPN15, CASK, CHD7, CISD2, COL4A1, COL4A2, CYP1B1, DDHD2, DNAJC30, DNMT1L, EPRS1, FAT1, FXR, FOXO1, FOXO3, FRAS1, FREM1, FREM2, GDF3, GDF6, GRIP1, HCCS, HESX1, HIKESHI, HK1, HMX1, ISCA2, KANSL1, KIF7, KMT2D, KNSTRN, MAB21L2, MAG, MECP, MFF, MFN2, MFRP, MYRF, NBAS, NDUFA12, NR2F1, OPA1, OPA3, OTX2, PAX2, PAX6, PDSS1, PIGL, PIK3CD, PITX2, PITX3, PLK4, POLG, PRSS56, PUF60, RAB18, RAB3GAP1, RAB3GAP2, RARB, RAX, RBP4, SHH, SIX6, SLC25A46, SLC38A8, SLC44A1, SLC52A2, SMO, SMOC1, SOX2, SOX5, SPG7, SSBP1, STRA6, TBC1D20, TENM3, TFG, TIMM8A, TMEM126A, TMEM98, TUBA8, TUBGCP4, UBE3B, UCHL1, VAX1, VPS35L, VSX2, WFS1</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	17.09.24 (20.06.23)
Okulärer und Okulokutaner Albinismus ; Gene: <i>DCT, GPR143, LRMDA, OCA2, SLC24A5, SLC38A8, SLC45A2, TYR, TYRP1</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	19.03.25 (14.03.25)
Oslerische Krankheit / Morbus Osler / Hereditäre hämorrhagische Teleangiektasie (HHT) ; Gene: <i>ACVRL1 (NM_000020.3), BMPR2 (NM_001204.7), ENG (NM_00114753.3), EPHB4 (NM_004444.5), GDF2 (NM_016204.4), RASA1 (NM_002890.3), SMAD4 (NM_005359.6), SOX18 (NM_018419.3)</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	20.09.24 (08.12.23)
Pankreaskarzinom , Gene: <i>APC, ATM, BRCA1, BRCA2, CDKN2A, EPCAM, MLH1, MSH2, MSH6, PALB2, PMS2, STK11, TP53</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1,	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (10.11.20)

Liste

Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
Paragangliom-Phäochromozytom-Syndrom , Gene: <i>AIP, MAX, MEN1, NF1, SDHA, SDHAF2, SDHB, SDHC, SDHD, RET, TMEM127, VHL</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (17.11.20)
Paraplegie / Hereditäre Spastische Paraplegie (HSP) ; Gene: <i>ABCD1, ABHD12, ABHD16A, ACER3, ADAR, AFG2B, AFG3L2, AIMP1, ALDH18A1, ALDH3A2, ALS2, AMPD2, ANG, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, ARG1, ARL6IP1, ATAD3A, ATL1, ATP13A2, B4GALNT1, BCAS3, BICD2, BLOC1S1, BSLC2, C19orf12, CAPN1, CCDC82, CCT5, CDK16, CHP1, COQ4, CPT1C, CTNNA1, CYP27A1, CYP2U1, CYP7B1, DARS1, DARS2, DDHD1, DDHD2, DDX3X, DNM2, DSTYK, ELOVL1, ENTPD1, ERLIN1, ERLIN2, EXOSC3, FA2H, FAR1, FARS2, FBXO7, FIG4, GAD1, GALT, GAN, GBA2, GBE1, GCH1, GFAP, GJA1, GJC2, GLB1, GLRX5, GPT2, GRID2, HACE1, HEXA, HIKESHI, HPDL, HSPD1, IBA57, IFIH1, KCNA2, KDM5C, KIDINS220, KIF1A, KIF1C, KIF5A, KLC2, KPNA3, L1CAM, LYST, MAG, MAPK8IP3, MARS1, MARS2, MTPAP, MTRFR, NDUFA12, NIPA1, NKX6-2, NRCAM, NSRP1, NTSC2, OPA1, OPA3, PANK2, PCYT2, PDYN, PI4KA, PLA2G6, PLP1, PNPLA6, POLR3A, POLR3K, PSEN1, RAB3GAP2, REEP1, REEP2, RNASEH2B, RNF170, RTN2, SACS, SARS2, SELENOI, SERAC1, SLC16A2, SLC1A4, SLC25A15, SLC25A46, SLC2A1, SLC33A1, SOD1, SPART, SPAST, SPG11, SPG21, SPG7, SPR, SPTAN1, TAF8, TARDBP, TECPR2, TFG, TH, TMEM63C, TNFR, TUBB4A, UBAP1, UBQLN2, UCHL1, VAMP1, VAPB, VCP, VPS37A, WASHC5, WDR45B, WDR48, ZFYVE26, ZFYVE27</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	10.09.24 (07.06.23)
Parkinson-Syndrom, hereditär ; Gene: <i>ADH1C, ANO3, ATP13A2, ATP1A3, ATP6AP2, ATP7B, C19orf12, CHCHD2, CSF1R, DCTN1, DNAJC6, EIF4G1, FBXO7, FTL, GBA1, GCH1, GNAL, GRN, HTRA2, LRRK2, MAPT, NR4A2, PANK2, PARK7, PINK1, PLA2G6, PRKCG, PRKN, PRKRA, PSAP, PTRHD1, RAB39B, SLC20A2, SLC30A10, SLC39A14, SLC6A3, SNCA, SPG11, SPR, SYNJ1, TAF1, TH, TUBB4A, UCHL1, VPS13A, VPS13C, VPS35, WDR45, ZFYVE26</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	10.09.24 (10.05.23)
Peutz-Jeghers-Syndrom , Gen: <i>STK11</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)
Polyposis coli , Gene: <i>APC, BMPR1A, MSH3, MUTYH, NTHL1, POLD1, POLE, PTEN, RNF43, SMAD4, STK11</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger-	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (26.11.20)

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Analyt (Messgröße)	Untersuchungs- material	Sequenzierung Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
Porphyrie, hereditär ; Gene: <i>ABCC2, ALAD, ALAS2, CDIN1, CLPX, CPOX, FECH, GATA1, HFE, HMBS, PPOX, SLC19A2, UROD, UROS</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	05.11.24 (25.09.45)
Prostatakarzinom : <i>ATM, BRCA1, BRCA2, CHEK2, EPCAM, HOXB13, MLH1, MSH2, MSH6, PALB2, PMS2, RAD51C, TP53</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (30.06.23)
RASopathie , Gene: <i>A2ML1, BRAF, CBL, HRAS, KRAS, LZTR1, MAP2K1, MAP2K2, MRAS, NF1, NRAS, PPP1CB, PTPN11, RAF1, RASA2, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)
Rhabdoid-Prädispositions-Syndrom , Gene: <i>SMARCB1, SMARCA4</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)
Schilddrüsenkarzinom, medulläres , Gen: <i>RET</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (03.03.21)
Schilddrüsenkarzinom, papilläres , Gene: <i>APC, CDKN1B, DICER1, PRKAR1A, PTEN</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (03.02.23)
Schwannomatose , Gene: <i>LZTR1, NF2, SMARCB1</i>	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV- Analyse; PCR, Sanger- Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik- Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)

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Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenommen am (erstellt am)
Schwerhörigkeit, hereditär ; Gene: <i>ABCC1, ABHD12, ACTG1, ADGRV1, AFG2A, AFG2B, AIFM1, ANKH, ARSG, ATOH1, ATP1A3, ATP11A, ATP2B2, ATP6V1B1, BDP1, BSND, BTB, CABP2, CACNA1D, CCDC50, CD151, CD164, CDC14A, CDH23, CEACAM16, CEP250, CEP78, CHD7, CIB2, CISD2, CLDN14, CLDN9, CLIC5, CLPP, CLRN1, CLRN2, COCH, COL11A1, COL11A2, COL2A1, COL4A3, COL4A4, COL4A5, COL4A6, COL9A1, COL9A2, COL9A3, CRYM, DCDC2, DIABLO, DIAPH1, DIAPH3, DMXL2, DPT, DSPP, DTNA, EDN3, EDNRB, ELMOD3, EPS8, EPHA10, EPS8L2, ERAL1, ESPN, ESRP1, ESRRB, EYA1, EYA4, FGF3, FGFR3, FITM2, FOXL1, GAB1, GAS2, GATA3, GDF6, GIPC3, GJB2, GJB3, GJB6, GPRASP2, GPM2, GRAP, GREB1L, GRHL2, GRXCR1, GRXCR2, GSDME, HARS2, HGF, HOMER2, HSD17B4, ILDR1, KARS1, KCNE1, KCNJ10, KCNQ1, KCNQ4, KITLG, KMT2D, LARS2, LHFPL5, LMX1A, LOXHD1, LRP5, LRTOMT, MAP1B, MARVELD2, MASP1, MCM2, MET, METTL13, MINAR2, MIR96, MITF, MPZL2, MSRB3, MYH14, MYH9, MYO15A, MYO1A, MYO3A, MYO6, MYO7A, NARS2, NCOA3, NLRP3, NMNAT1, OSBPL2, OTOA, OTOF, OTOG, OTOLG, P2RX2, PAX3, PCDH15, PDE1C, PDZD7, PEX1, PEX26, PEX6, PHYH, PI4KB, PIVK, PLS1, PNPT1, POLR1B, POLR1C, POLR1D, POU3F4, POU4F3, PPIP5K2, PRKCB, PRPS1, PTPRQ, RAI1, RDX, REST, RIPOR2, ROR1, S1PR2, SALL1, SCD5, SERAC1, SERPINB6, SERPINF1, SIX1, SIX5, SLC12A2, SLC17A8, SLC22A4, SLC26A4, SLC26A5, SLC44A4, SLITRK6, SMPX, SNAI2, SOX10, SPATC1L, SPNS2, STRC, STX4, SYNE4, TBC1D24, TCOF1, TECTA, THOC1, TIMM8A, TJP2, TMC1, TMEM43, TMEM132E, TMEM145, TMIE, TMPRSS3, TMT2C, TNC, TOP2B, TPRN, TRIOBP, TRRAP, TSPEAR, TWNK, USH1C, USH1G, USH2A, USP48, WBP2, WFS1, WHRN</i>	EDTA-Blut, DNA	Capture Enrichment (Twist Exome 2.0), Sequencing-by-synthesis, Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	07.10.24 (23.09.24)
Septo-optische Dysplasie ; Gene: <i>ALG13, ARNT, FGF8, FGFR1, FLNA, GLI2, HESX1, OTX2, PAX6, PROKR2, PROP1, SOX2, SOX3, STAG2, TAX1BP3</i>	EDTA-Blut, DNA	Capture Enrichment (Twist Exome 2.0), Sequencing-by-synthesis, Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	11.07.25 (11.07.25)
Spastische Paraplegie/SPG, hereditär ; Gene: <i>ABCD1, ABHD12, ABHD16A, ACER3, ADAR, AFG2B, AFG3L2, AIMP1, ALDH18A1, ALDH3A2, ALS2, AMPD2, ANG, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, ARG1, ARL6IP1, ATAD3A, ATL1, ATP13A2, B4GALNT1, BCAS3, BICD2, BLOC1S1, BSCL2, C19orf12, CAPN1, CCDC82, CCT5, CDK16, CHP1, COQ4, CPT1C, CTNNB1, CYP27A1, CYP2U1, CYP7B1, DARS1, DARS2, DDHD1, DDHD2, DDX3X, DNM2, DSTYK, ELOVL1, ENTPD1, ERLIN1, ERLIN2, EXOSC3, FA2H, FAR1, FARS2, FBXO7, FIG4, GAD1, GALT, GAN, GBA2, GBE1, GCH1, GFAP, GJA1, GJC2, GLB1, GLRX5, GPT2, GRID2, HACE1, HEXA, HIKESHI, HPDL, HSPD1, IBA57, IFIH1, KCNA2, KDM5C, KIDINS220, KIF1A, KIF1C, KIF5A, KLC2, KPNA3, L1CAM, LYST, MAG, MAPK8IP3, MARS1, MARS2, MTPAP, MTRFR, NDUFA12, NIPA1, NKX6-2, NRCAM, NSRP1, NT5C2, OPA1, OPA3, PANK2, PCYT2, PDYN, PI4KA, PLA2G6, PLP1, PNPLA6, POLR3A, POLR3K, PSEN1, RAB3GAP2, REEP1, REEP2, RNASEH2B, RNF170, RTN2, SACS, SARS2, SELENOI, SERAC1, SLC16A2, SLC1A4, SLC25A15, SLC25A46, SLC2A1, SLC33A1, SOD1, SPART, SPAST, SPG11, SPG21, SPG7, SPR,</i>	EDTA-Blut, DNA	Capture Enrichment (Twist Exome 2.0), Sequencing-by-synthesis, Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	20.09.24 (07.06.23)

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SPTAN1, TAF8, TARDBP, TECPR2, TFG, TH, TMEM63C, TNF, TUBB4A, UBAP1, UBQLN2, UCHL1, VAMP1, VAPB, VCP, VPS37A, WASHC5, WDR45B, WDR48, ZFYVE26, ZFYVE27					
Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
Thorakale Aortenerweiterung , Gene: ACTA2, COL3A1, FBN1, MYH11, MYLK, SMAD3, TGFB2, TGFB1, TGFB2	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (20.10.20)
Tuberöse Sklerose , Gene: TSC1, TSC2	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)
Usher-Syndrom ; Gene: ABHD12 (NM_015600.5), ADGRV1 (NM_032119.4), ARSG (NM_014960.5), CDH23 (NM_022124.6), CEP250 (NM_007186.6), CEP78 (NM_001098802.3), CIB2 (NM_006383.4, CLRN1 (NM_001195794.1), ESPN (NM_031475.3), MYO7A (NM_000260.4), PCDH15 (NM_001142763.2), PDZD7 (NM_001195263.2), PEX1 (NM_000466.3), PEX6 (NM_000287.4), TUBB4B (NM_006088.6), USH1C (NM_153676.4), USH1G (NM_173477.5), USH2A (NM_206933.4), WHRN (NM_015404.4)	EDTA-Blut, DNA	Capture Enrichment (Twist Exome 2.0), Sequencing-by-synthesis, Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	20.09.24 (15.09.23)
Von-Hippel-Lindau-Syndrom , Gen: VHL	EDTA-Blut, DNA	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)
Whole Exome-Sequenzierung (WES)	EDTA-Blut, DNA	Capture Enrichment (Twist Exome 2.0), Sequencing-by-synthesis, Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS-NextSeq (v3), AA_Sanger-Sequenzierung (v1) Twist Exome 2.0 Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina NextSeq, SeqStudio (Thermo Fisher)	02.09.24 (22.02.23)
Wilms-Tumor : WT1	EDTA-Blut	Capture Enrichment, Sequencing-by-synthesis; Bioinformatik-Pipeline: varfeed; SNV-, Indel-, CNV-Analyse; PCR, Sanger-Sequenzierung	AA_NGS_MiniSeq (v5), AA_Sanger-Sequenzierung (v1) Bioinformatik-Pipeline: varfeed 2.5.1, Limbus, Rostock	Illumina MiniSeq, SeqStudio (Thermo Fisher)	02.09.24 (01.12.20)

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Liste

Analyt (Messgröße)	Untersuchungs- material	Untersuchungstechnik	Anweisung (Version) Pipeline/Kit	Gerät	Im akkreditierten Bereich aufgenom- men am (erstellt am)
ABCC6-Defizienz, Gen: ABCC6	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Apr 2024)
Caveolin-Defizienz, Gen: CAV3	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Apr 2024)
CMT1, Gen: PMP22	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	24.01.25 (Dez 2024)
Fumarat-Hydratase-Defizienz, Gen: FH	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Mai. 2024)
HBOC / Mamma- und Ovarialkarzinom, Gene: <i>BRCA1</i> , <i>BRCA2</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Okt 2024)
HBOC / Mamma- und Ovarialkarzinom (HBOC), Gene: <i>BRCA1</i> , <i>BRCA2</i> , <i>CHEK2</i> , <i>PALB2</i> , <i>RAD51C</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Juli 2024)
Hypercholesterinämie, hereditär; Gen: LDLR	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo F isher)	14.01.25 (Dez 2024)
Juvenile Polyposis / JPS; Gene: <i>BMPR1A</i> , <i>PTEN</i> , <i>SMAD4</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Aug 2024)
Langes QT-Syndrom; Gene: <i>KCNQ1</i> , <i>KCNH2</i> , <i>KCNE1</i> , <i>KCNE2</i> , <i>KCNJ2</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Apr. 2024)
Lynch-Syndrom, Gene: <i>MLH1</i> , <i>MSH2</i> , <i>MSH6</i> , <i>PMS2</i> , <i>EPCAM</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Sept 2024)
Multiple Endokrine Neoplasie Typ 1, Gen: <i>MEN1</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	14.01.25 (Dez 2024)
Polyposis coli, Gene: <i>APC</i> , <i>MUTYH</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Feb 2024)
Porphyrie; Gene: <i>ALAD</i> , <i>CPOX</i> , <i>FECH</i> , <i>HMBS</i> , <i>PPOX</i> , <i>UROS</i> , <i>UROD</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	10.12.24 (Nov 2024)
Peutz-Jeghers-Syndrom, Gen: <i>STK11</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Juli 2024)
SHOX-Ausfall, Gen: <i>SHOX</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Apr. 2024)
Tuberöse Sklerose, Gene: <i>TSC1</i> , <i>TSC2</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	06.11.24 (Okt 2024)
Marfan-Syndrom und Loeys-Dietz-Syndrom, Gene: <i>FBN1</i> , <i>TGFBR1</i> , <i>TGFBR2</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	02.09.24 (Jan 2024)
Neurofibromatose Typ 1, Gen: <i>NF1</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	06.11.24 (Okt 2024)
Neurofibromatose Typ 1, Gen: <i>NF2</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	06.11.24 (Okt 2024)
Ehlers-Danlos-Syndrom, vaskulärer Typ, Gen: <i>COL3A1</i>	EDTA-Blut, DNA	MLPA	AA_MLPA (v2)	SeqStudio (Thermo Fisher)	17.12.24 (Dez 2024)