

Disease/Condition name	Method	No of detectable genes/markers	Genes	Price (EUR)
Achromatopsia	NGS	6	ATF6, CNGA3, CNGB3, GNAT2, PDE6C, PDE6H	1051
Age-related Macular Degeneration	NGS	15	ABCA4, ARMS2, C2, C3, C9, CFB, CFH, CFI, CST3, CX3CR1, ERCC6, FBLN5, HMCN1, HTRA1, RAX2	995*
	Sanger Sequencing	2/3	ARMS2, CFH	87
Aniridia	Sanger Sequencing	1	PAX6	773
	MLPA	1	PAX6	310
Anophthalmia/ Microphthalmia/ Coloboma/Anterior Segment Dysgenesis	NGS	35	ABCB6, ALDH1A3, ASPH, BCOR, B3GLCT, BMP4, CHD7, COL4A1, CYP1B1, EYA1, FOXC1, FOXE3, GDF3, GDF6, HCCS, HESX1, HMGB3, LTBP2, MAB21L2, MFRP, OTX2, PAX6, PITX2, PRSS56, RARB, RAX, SIX6, SLC38A8, SMOC1, SOX2, STRA6, TENM3, VAX1, VSX1, VSX2	1314
Autosomal Dominant Retinitis Pigmentosa	Targeted regions sequencing by NGS	16	CA4, CRX, FSCN2, IMPDH1, KLHL7, NR2E3, NRL, PRPF3, PRPF8, PRPF31, PRPH2, RHO, ROM1, RP1, RP9, TOPORS	450
	NGS	26	AIPL1, BEST1, CA4, CRX, FSCN2, GUCA1B, IMPDH1, KLHL7, NR2E3, NRL, PRKCG, PRPF3, PRPF6, PRPF8, PRPF31, PRPH2, RDH12, RGR, RHO, ROM1, RP1, RP9, RPE65, SEMA4A, SNRNP200, TOPORS	1314
	MLPA	4	IMPDH1, PRPF31, RHO, RP1	590
Autosomal Recessive Retinitis Pigmentosa	Targeted regions sequencing by NGS	28	ABCA4, AIPL1, CERKL, CLRN1, CNGA1, CNGA3, CNGB1, CNGB3, CRB1, EYS, GRK1, IMPG2, LRAT, MERTK, NR2E3, PDE6A, PDE6B, PROM1, RBP3, RDH12, RGR, RHO, RLBP1, RP1, RPE65, SAG, TULP1, USH2A	450
	NGS	56	ABCA4, AIPL1, ARL6, BEST1, C2orf71, C8ORF37, CA4, CERKL, CLRN1, CNGA1, CNGB1, CRB1, CRX, DHDDS, EYS, FAM161A, FLVCR1, FSCN2, GUCA1B, IDH3B, IMPDH1, IMPG2, LRAT, MAK, MERTK, NR2E3, NRL, PDE6A, PDE6B, PDE6G, PRCD, PROM1, PRPF3, PRPF6, PRPF8, PRPF31, PRPH2, RBP3, RDH12, RGR, RHO, RLBP1, ROM1, RP1, RP2, RP9, RPE65, RPGR (ORF15 excluded), SAG, SEMA4A, SPATA7, TOPORS, TTC8, TULP1, USH2A, ZNF513	1314
	MLPA	7	EYS, IMPDH1, PRPF31, RHO, RP1, RP2, RPGR	806
	Sanger Sequencing	1	RPE65	515

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Bardet-Biedl Syndrome, McKusick-Kaufman Syndrome, Borjeson-Forsman-Lehmann Syndrome, Alstrom Syndrome, Albright Hereditary Osteodystrophy	NGS	22	ALMS1, ARL6, BBS1, BBS2, BBS4, BBS5, BBS7, BBS9, BBS10, BBS12, CCDC28B, CEP290, GNAS, LZTFL1, MKS1, MKKS, PHF6, SDCCAG8, TMEM67, TRIM32, TTC8, WDPCP	1314
Cataract	NGS	44	AGK, BCOR, BFSP1, BFSP2, CHMP4B, CRYAA, CRYAB, CRYBA1, CRYBA4, CRYBB1, CRYBB2, CRYBB3, CRYGB, CRYGC, CRYGD, CRYGS, CTDP1, EPHA2, EYA1, FTL, FYCO1, GALK1, GCNT2, GJA1, GJA3, GJA8, HSF4, LIM2, LSS, MAF, MIP, NHS, P3H2, PAX6, PITX3, PXDN, SIPA1L3, SIL1, SIX6, SLC16A12, TDRD7, UNC45B, VIM, VSX2	1314
Choroideremia	Sanger Sequencing	1	CHM	773
	MLPA	1	CHM	310
Cone-Rod Dystrophy	NGS	35	ABCA4, ADAM9, AIPL1, BEST1, CABP4, CACNA1F, CACNA2D4, CDHR1, CERKL, CNGB3, CNNM4, C8ORF37, CRX, GNAT2, GUCA1A, GUCY2D, KCNV2, PCYT1A, PDE6C, PDE6H, PITPNM3, POC1B, PROM1, PRPH2, RAB28, RAX2, RDH5, RGS9, RGS9BP, RIMS1, RPGR (ORF15 excluded), RPGRIP1, SEMA4A, TTLL5, UNC119	1314
Congenital Stationary Night Blindness	NGS	13	CABP4, CACNA1F, CHM, GNAT1, GRK1, GRM6, NYX, PDE6B, RDH5, RHO, SAG, SLC24A1, TRPM1	1051
Corneal Dystrophy	NGS	20	CHST6, COL5A1, COL17A1, COL8A2, CYP4V2, DCN, GSN, KRT3, KRT12, LOXHD1, PIKFYVE, PRDM5, SLC4A11, SOD1, ZEB1, ZNF469, TACSTD2, TGFBI, UBIAD1, VSX1	1051
Glaucoma	NGS	19	ACVR1, ASB10, BEST1, CANT1, COL18A1, CYP1B1, FOXC1, LMX1B, LOXL1, LTBP2, MYOC, NTF4, OPTN, PAX6, PITX2, PITX3, SBF2, SLC4A4, WDR36	1051
Leber Congenital Amaurosis	Targeted regions sequencing by NGS	15	AIPL1, CEP290, CRB1, CRX, GUCY2D, IQCB1, LCA5, LRAT, MERTK, RD3, RDH12, RPE65, RPGRIP1, SPATA7, TULP1	450
	NGS	20	AIPL1, CABP4, CEP290 (intronic position c.2991+1655A>G included), CRB1, CRX, GDF6, GUCY2D, IMPDH1, IQCB1, KCNJ13, LCA5, LRAT, NMNAT1, OTX2, RD3, RDH12, RPE65, RPGRIP1, SPATA7, TULP1	1051
	MLPA	8	AIPL1, CEP290, CRB1, CRX, GUCY2D, RDH12, RPE65, RPGRIP1	806

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Leber Hereditary Optic Neuropathy	Sanger Sequencing	3/3	MT-ND1, MT-ND4, MT-ND6	176
	NGS	37	Mitochondrial Genome	803
Norrie Disease	Sanger Sequencing	1	NDP	262
Oculocutaneous Albinism, Ocular Albinism, Hermansky-Pudlak Syndrome, Chediak-Higashi Syndrome	NGS	17	AP3B1, BLOC1S3, BLOC1S6, DTNBP1, GPR143, HPS1, HPS3, HPS4, HPS5, HPS6, LRMDA, LYST, OCA2, SLC24A5, SLC45A2, TYR, TYRP1	1051
	MLPA	3	GPR143, OCA2, TYR	710
Optic Atrophy	Targeted regions sequencing by NGS	1	OPA1	450
	NGS	3	OPA1, OPA3, TMEM126A	1030
	MLPA	1	OPA1	310
Papillorenal Syndrome	Sanger Sequencing	1	PAX2	525
Retinoblastoma	NGS	1	RB1	960
	MLPA	1	RB1	310
Senior-Loken Syndrome	NGS	9	CEP290, INVS, IQCB1, NPHP1, NPHP3, NPHP4, SDCCAG8, TRAF3IP1, WDR19	1070
Stargardt Disease	NGS	1	ABCA4	450
	NGS	4	ABCA4, CNGB3, ELOVL4, PROM1	1030
	MLPA	1	ABCA4	590
Usher Syndrome	Targeted regions sequencing by NGS	9	ADGRV1 (GPR98), CDH23, CLRN1, MYO7A, PCDH15, USH2A, USH1C, USH1G, WHRN (DFNB31)	450
	NGS	20	ABHD12, ADGRV1 (GPR98), CDH23, CIB2, CLRN1, COL4A6, DSPP (excluding exon 5), GIPC3, HARS, KARS, LHFPL5, LOXHD1, MYO7A, PCDH15, PDZD7, TNC, USH2A, USH1C, USH1G, WHRN (DFNB31)	1051
	MLPA	1	USH2A	590
	MLPA	1	PCDH15	310
Vitelliform Macular Dystrophy	Sanger Sequencing	1	BEST1	395
	NGS	3	BEST1, IMPG1, PRPH2	1030
	MLPA	2	BEST1, PRPH2	590

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Vitreoretinopathy	NGS	19	BEST1, CAPN5, COL2A1, COL9A1, COL9A2, COL9A3, COL11A1, COL11A2, COL18A1, FZD4, KCNJ13, KIF11, LRP5, NDP, NR2E3, RS1, TSPAN12, VCAN, ZNF408	1334
X-Linked Retinitis Pigmentosa	Targeted regions sequencing by NGS, Sanger Sequencing	2	RP2, RPGR (ORF15 included)	640
	Sanger Sequencing	1	RPGR (ORF15 region only)	257
	NGS, Sanger Sequencing	3	OFD1, RP2, RPGR (ORF15 included)	1051
	MLPA	2	RP2, RPGR	590
X-Linked Retinoschisis	Sanger Sequencing	1	RS1	395
Eye Diseases	NGS	283	283 genes associated with different eye diseases	1567
Whole Exome Sequencing (WES)	NGS		Solo sample	1567
			Trio samples	3100
Whole Genome Sequencing (WGS)	NGS		Solo sample	4500
			Trio samples	8800

* Clinical interpretation is not available

Service includes

- DNA extraction
- Genotyping
- Bioinformatic analysis of detected variants
- Detected variants available in Excel format (on request)
- Validation of phenotype/diagnosis associated known or possibly pathogenic variants
- Clinical and biological interpretation
- Results delivery by registered mail (on request)
- TAT 2-9 weeks, excl. WES and WGS 15 weeks

Online ordering, specimen requirements and shipping instructions are available at www.asperbio.com.