

**Supplementary Table S1. Panel-based NGS of 289 genes involved in common inherited anterior eye diseases.**

AASS	ABCA1	ABC6	ABHD12	ACO2	ADAMTS10	ADAMTS17	ADAMTS18
ADAMTSL2	ADAMTSL4	AFG3L2	AGBL1	AGK	AGPS	AIRE	ALDH1A3
ANTXR1	APOA1	ASB10	ASPH	ATOH7	ATXN1	AUH	B3GLCT
B4GAT1	BCOR	BEST1	BFSP1	BFSP2	BMP4	BMP7	BTD
C12orf57	C12orf65	CASK	CAV1	CAV2	CBS	CDKN2B	CDKN2B-AS1
CETP	CHD7	CHMP4B	CHRDL1	CHST6	CISD2	CLPB	CLU
COL11A1	COL11A2	COL15A1	COL17A1	COL18A1	COL1A2	COL2A1	COL4A1
COL4A3	COL4A4	COL4A5	COL8A2	COL9A1	COL9A2	COX7B	CPAMD8
CRYAA	CRYAB	CRYBA1	CRYBA2	CRYBA4	CRYBB1	CRYBB2	CRYBB3
CRYGA	CRYGB	CRYGC	CRYGD	CRYGS	CTDP1	CYP1B1	CYP4V2
DCN	DHCR7	DNAJC19	EDN3	EDNRB	EGR1	ELP4	EPG5
EPHA2	EPYC	ERCC2	ERCC6	ESR1	EYA1	FAM126A	FBN1
FBN2	FGFR2	FLNA	FOXC1	FOXC2	FOXD3	FOXE3	FOXF2
FTL	FYCO1	GALK1	GALNS	GALT	GAS7	GBA2	GCNT2
GDF3	GDF6	GEMIN4	GFER	GJA1	GJA3	GJA8	GLB1
GLIS3	GNAQ	GNPAT	GNPTG	GSN	GSTM1	GSTT1	GUSB
HCCS	HGSNAT	HMGB3	HMX1	HSF4	IARS2	IDUA	IKBK
ITM2B	JAG1	KCNJ13	KERA	KRT12	KRT3	LAMB2	LCAT
LDLR	LEMD2	LGR4	LIFR	LIM2	LMX1B	LOXHD1	LOXL1
LSS	LTBP2	LUM	MAB21L2	MAF	MCOLN1	MFN2	MFRP
MIP	MIR184	MIR204	MMP2	MSMO1	MYLK	MYOC	NAA10
NDP	NDUFB11	NDUFS1	NEUROG1	NHS	NOD2	NOTCH2	NR2F1
NTF4	OCRL	OLFM2	OPA1	OPA3	OPTN	OTX2	OVOL2
P3H2	PAX2	PAX3	PAX6	PEX1	PEX10	PEX11B	PEX12
PEX13	PEX14	PEX16	PEX19	PEX2	PEX26	PEX3	PEX5
PEX6	PEX7	PIGN	PIKFYVE	PITX2	PITX3	PNPT1	POLG
PRDM5	PRPS1	PRSS56	PTCH1	PXDN	RAB18	RAB3GAP1	RAB3GAP2
RARB	RAX	RBP4	RDH11	RECQL4	RET	RTN4IP1	SALL1
SALL2	SBF2	SEMA3E	SH3PXD2B	SHH	SIL1	SIPA1L3	SIX1
SIX6	SLC16A12	SLC25A46	SLC33A1	SLC38A8	SLC39A13	SLC4A11	SLC4A4
SMAD3	SMAD7	SMOC1	SNAI2	SORD	SOX10	SOX2	SOX9
SPG7	SRD5A3	STRA6	STS	SUOX	TACSTD2	TBC1D20	TBK1

TBX1	TCF4	TDRD7	TEK	TENM3	TFAP2A	TGFBI	TMCO1
TMEM114	TMEM126A	TMEM5	TMEM70	TMEM98	TMX3	TNFAIP3	TRIM44
TRPM3	TSPAN12	UBIAD1	UNC45B	VAX1	VCAN	VIM	VSX1
VSX2	WDR36	WFS1	WRN	YAP1	ZEB1	ZEB2	ZFHX4
ZNF469							

NGS, next-generation sequencing.