

Supplementary Table 1 The names of 304 reference genes screened

Alphabetic order	Number	Gene symbol
A	22	<i>ABCA4, ACVR1, ADA2, ADAMTS10, ADAMTS17, ADAMTS3, ADAR, AGBL5, AGK, AHI1, AHR, AKT1, ANKLE2, ANTXR1, ARHGEF18, ARL2BP, ARL3, ARL6, ARSB, ASB10, ATOH7, ATR</i>
B	11	<i>B3GALNT2, B3GAT3, B3GLCT, B4GAT1, BBS1, BBS2, BCOR, BEST1, BTNL2, BUB1, BUB1B</i>
C	38	<i>C8orf37, CA4, CANT1, CBS, CCBE1, CCDC22, CCDC28B, CDH11, CDHR1, CENPE, CENPJ, CEP152, CEP57, CERKL, CHRDL1, CHST14, CHST3, CISD2, CLN3, CLRN1, CNGA1, CNGB1, COL11A1, COL18A1, COL2A1, COL3A1, COL4A1, COL8A2, COMT, COX7B, CRB1, CREBBP, CRPPA, CRX, CRYAA, CRYBA2, CRYBB3, CYP1B1</i>
D	7	<i>DAG1, DCN, DDX58, DHCR7, DHDDS, DHX38, DSE</i>
E	6	<i>EBP, ELN, EP300, ESCO2, EXOSC2, EYS</i>
F	14	<i>FAM161A, FAM50A, FAS, FAT4, FBN1, FGFR2, FKRP, FKTN, FLNA, FOXC1, FOXE3, FREM2, FSCN2, FUT8</i>
G	12	<i>GATA1, GJA1, GJB3, GJB4, GLIS3, GMPPB, GNAQ, GP1BB, GRHL2, GSN, GUCA1B, GZF1</i>
H	4	<i>HCCS, HDAC8, HGSNAT, HLA-DRB1</i>
I	8	<i>IDH3A, IDH3B, IDUA, IFIH1, IFT140, IFT172, IMPDH1, IMPG2</i>
K	6	<i>KDSR, KIAA1549, KIF11, KIZ, KLHL7, KMT2A</i>

L	6	<i>LARGE1, LMX1B, LOXL1, LRAT, LRP5, LTBP2</i>
M	10	<i>MAB21L1, MAF, MAFA, MAG, MAK, MASP1, MERTK, MFRP, MYMK, MYOC</i>
N	13	<i>NAA10, NCAPG2, NDP, NDUFB11, NEK2, NF1, NHS, NIPBL, NLRP3, NOD2, NR2E3, NRL, NTF4</i>
O	5	<i>OCRL, OFD1, OPTN, OLFM2, OVOL2</i>
P	46	<i>PAX6, PCARE, PCNT, PDE6A, PDE6B, PDE6G, PEX1, PEX10, PEX11B, PEX12, PEX13, PEX14, PEX16, PEX19, PEX2, PEX26, PEX3, PEX5, PEX6, PIK3C2A, PIK3R1, PITX2, PLK4, PLOD1, POMGNT1, POMGNT2, POMK, POMT1, POMT2, PRCD, PRDM5, PROM1, PRPF3, PRPF31, PRPF4, PRPF6, PRPF8, PRPH2, PRSS56, PTCH1, PTCH2, PTEN, PTPN22, PUS1, PXDN, PYCR1</i>
R	43	<i>RAD21, RASA1, RBBP8, RBP3, RDH12, RECQL4, REEP6, RGR, RHO, RHOA, RLBP1, RNASEH2A, RNASEH2B, RNASEH2C, RNU4ATAC, ROM1, RP1, RP1L1, RP2, RP9, RPE65, RPGR, RPL11, RPL15, RPL18, RPL26, RPL27, RPL35, RPL35A, RPL5, RPS10, RPS15A, RPS17, RPS19, RPS24, RPS26, RPS27, RPS28, RPS29, RPS7, RRM2B, RS1, RXYLT1</i>
S	19	<i>SAG, SAMHD1, SBF2, SCAPER, SEMA4A, SETD5, SH3PXD2B, SIX6, SKIV2L, SLC25A4, SLC4A4, SLC7A14, SMC1A, SMC3, SNRNP200, SPATA7, SRY, STUB1, SUFU</i>
T	18	<i>TBC1D20, TBX1, TEK, TGFB1, TIMP3, TKFC, TMEM98, TOPORS, TRAIP, TREX1, TRIM44, TRIP13, TSR2, TTC37, TTC8, TUB, TULP1, TWIST1</i>
U	1	<i>USH2A</i>

V	2	<i>VCAN, VSX1</i>
W	4	<i>WASHC5, WDR36, WFS1, WT1</i>
X	1	<i>XYLT1</i>
Y	2	<i>YAP1, YARS2</i>
Z	6	<i>ZEB1, ZMIZ1, ZNF408, ZNF469, ZNF513, ZSWIM6</i>

Supplementary Table 2 Single nucleotide polymorphisms positions for some of the major genes that were previously reported to affect juvenile-onset primary open-angle glaucoma phenotype

Data source	Gene	SNP ID		Sequence changes		
Shimizu <i>et al</i> ^[1] , 2000	<i>MYOC</i>	rs74315341; rs566289099; rs74315331	rs74315330;	c.754G>A (Pro370Leu); c.1430T>A (Ile477Asn)	(Gly252Arg); c.1130C>T (Thr377Met);	c.1109C>T
Su <i>et al</i> ^[2] , 2012	<i>CYP1B1</i>	rs56010818		c.1169G>A (Arg390His)		
Su <i>et al</i> ^[3] , 2017	<i>WDR36</i>	rs13178997		c.1494+1111G>A (N/A)		
Svidnicki <i>et al</i> ^[4] , 2018	<i>MYOC; CYP1B1</i>	rs74315329; rs74315338; rs201824781	rs74315336;	c.1102C>T (Lys423Glu); c.155C>T (Pro52Leu)	(Gln368Ter); c.1297T>C (Cys433Arg);	c.1267A>G
Saeedi <i>et al</i> ^[5] , 2018	<i>LTBP2</i>	rs76172717; rs528254230		c.2966C>G (Asn1745Lys)	(Pro989Arg);	c.5235T>G
Huang <i>et al</i> ^[6] , 2018	<i>MYOC; OPTN; CYP1B1</i>	rs74315330; rs1564364468; rs56010818	rs777195053;	c.1109C>T (Leu494Trp); c.1169G>A (Arg390His)	(Pro370Leu); c.985A>G (Arg329Gly);	c.1481T>G

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OAS3

rs187467512

c.2299C>T (Arg767Cys)

SNP: Single nucleotide polymorphisms; N/A: Not available.

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