Supplementary

Table S1 Comprehensive overview of patients' clinical characteristics, iridocorneal angle morphology, and genetic defects

| Patient No. | Sex | Age at first visit | Presenting complaint | Onset age of glaucoma | Iridocorneal angle by number of quadrants (OD) |  |  |  |  |  | Corneal clarity (OD) | Iridocorneal angle by number of quadrants (OS) |  |  |  |  |  | Corneal clarity (OS) | Mutant gene | Nucleotide changes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Type A | Type B | Type C | Type D | Type E | Type F |  | Type A | Type B | Type C | Type D | Type E | Type F |  |  |  |
| 1 | M | 1 m | Whitish appearance of the left eye | at birth |  | 1 | 3 |  |  |  | 1 | 1 |  | 3 |  |  |  | 2 | FOXC1 | c.388C> ${ }^{\text {T }}$ |
| 2 | M | 1 m | Whitish appearance of both eyes | at birth |  | 1.5 |  | 2.5 |  |  | 2 | - | - | - | - | - | - | 2 | FOXC1 | c.592_593delins C |
| 3 | F | 1 m | Whitish appearance of both eyes | at birth |  | 4 |  |  |  |  | 2 |  | 4 |  |  |  |  | 2 | FOXC1 | Gross deletion in 6: 1478641-2694750 |
| 4 | M | 1 m | Whitish appearance of both eyes | at birth |  | 3.5 |  | 0.5 |  |  | 2 |  | 3.5 |  | 0.5 |  |  | 2 | FOXC1 | c.503_504insGCGGCG |
| 5 | M | 2 m | Whitish appearance of both eyes | at birth | 1.5 |  | 2.5 |  |  |  | 2 | 1.5 |  | 2.5 |  |  |  | 2 | FOXC1 | c.392C>T |
| 6 | F | 9 y | Whitish appearance of both eyes | at birth |  | 3 | 1 |  |  |  | 3 |  | 3 | 1 |  |  |  | 3 | FOXC1 | c. $430 \mathrm{~A}>\mathrm{T}$ |
| 7 | M | 1 m | Whitish appearance of both eyes | 1 m |  | 1.5 |  | 2.5 |  |  | 2 |  | 1.5 |  | 2.5 |  |  | 2 | FOXC1 | c. $380 \mathrm{G}>\mathrm{A}$ |
| 8 | M | 4 m | Whitish appearance of the right eye | 4 m |  |  | 4 |  |  |  | 2.5 | - | - | - | - | - | - | 1 | FOXC1 | c. $240 \_241 \mathrm{insTAT}$ |
| 9 | M | 5 m | Whitish appearance of both eyes | 5 m |  | 2.5 | 1.5 |  |  |  | 2.5 |  | 2.5 | 1.5 |  |  |  | 2.5 | FOXC1 | Gross deletion in 6: 382441-2333070 |
| 10 | M | 10 y | Reduced vision in both eyes | $10 y$ | 1 | 2.5 |  | 0.5 |  |  | 2 | 1.5 | 2.5 |  |  |  |  | 2 | FOXC1 | c. $275 \mathrm{~A}>\mathrm{C}$ |
| 11 | F | 14 y | Reduced vision in both eyes | $14 y$ |  | 1.5 | 2.5 |  |  |  | 1 |  | 1 | 3 |  |  |  | 1 | FOXC1 | c. $246 \mathrm{C}>\mathrm{G}$ |
| 12 | M | 15 y | Reduced vision in both eyes | 15y |  |  |  | 4 |  |  | 1 |  |  |  | 4 |  |  | 1 | FOXC1 | c. $482 \mathrm{~T}>\mathrm{A}$ |
| 13 | M | 15 y | Pain in both eyes | 15y |  | 3 | 1 |  |  |  | 1 |  | 2.5 | 1.5 |  |  |  | 1 | FOXC1 | c.205delC |
| 14 | F | 18 y | Reduced vision in both eyes | 18 y |  | 4 |  |  |  |  | 1 |  | 3.5 |  |  | 0.5 |  | 1 | FOXC1 | c.718_719del |
| 15 | F | 24 y | Reduced vision in both eyes | $24 y$ |  | 3 | 1 |  |  |  | 1 |  | 3 | 1 |  |  |  | 1 | FOXC1 | c.718_719del |
| 16 | F | 5 m | Whitish appearance of both eyes | 5 m |  |  |  |  | 4 |  | 2.5 |  |  |  |  | 4 |  | 2.5 | PITX2 | c. $1731>G$ |
| 17 | M | 2 y | Reduced vision in both eyes | 2 y |  | 1.5 |  |  | 2.5 |  | 1 |  | 1.5 |  |  | 2.5 |  | 1 | PITX2 | c.348delG |
| 18 | F | 4 y | Reduced vision in both eyes | $4 y$ |  |  |  |  | 3 | 1 | 1 |  |  |  |  | 3 | 1 | 2 | PITX2 | c. $103 \mathrm{~A}>\mathrm{T}$ |
| 19 | F | 5 y | Reduced vision in both eyes | $5 y$ |  |  |  |  | 4 |  | 2 |  |  |  |  | 4 |  | 1 | PITX2 | c. $269 \mathrm{G}>\mathrm{C}$ |
| 20 | F | 13 y | Pain in the left eye | 13 y | - | - | - | - | - | - | 1 |  |  |  |  | 4 |  | 1 | PITX2 | c. $253-11 \mathrm{~A}>\mathrm{G}$ |
| 21 | M | 17 y | Reduced vision in both eyes | 17y |  |  |  |  |  | 4 | 1 |  |  |  |  |  | 4 | 1 | PITX2 | c. $190 \mathrm{C}>\mathrm{G}$ |
| 22 | M | 18 y | Reduced vision in both eyes | 18 y | 2.5 |  |  |  | 1.5 |  | 1 | 3 |  |  |  | 1 |  | 1 | PITX2 | c.158_173GGTAGCT |
| 23 | M | 24 y | Reduced vision in the left eye | $24 y$ |  |  |  |  | 3 | 1 | 1 | 1 |  |  |  | 3 |  | 1 | PITX2 | c. $253-1 \mathrm{G}>\mathrm{A}$ |
| 24 | M | 25 y | Reduced vision in both eyes | $25 y$ | 3 |  |  |  | 1 |  | 1 | 3 |  |  |  | 1 |  | 1 | PITX2 | c.377delC |
| 25 | M | 30 y | Reduced vision in the left eye | $30 y$ | 3 |  |  |  |  | 1 | 1 | 3 |  |  |  |  | 1 | 1 | PITX2 | c.253-11A>G |
| 26 | M | 35 y | Reduced vision in both eyes | $35 y$ | 0.5 |  |  |  | 3.5 |  | 1 | 0.5 | 1 |  |  | 2.5 |  | 1 | PITX2 | c.539_551del |
| 27 | F | 41 y | Pain in both eyes | 41 y |  | 0.5 |  | 0.5 | 3 |  | 2 |  | 1.5 |  |  | 2.5 |  | 2 | PITX2 | c. 173 T>C |
| 28 | F | 46 y | Pain in both eyes | 46y | 0.5 |  | 0.5 |  | 3 |  | 2 |  |  |  |  | 2.5 | 1.5 | 2 | PITX2 | c. $253-11 \mathrm{~A}>\mathrm{G}$ |
| 29 | M | 61 y | Reduced vision in both eyes | $61 y$ | 2.5 | 0.5 | 0.5 |  |  | 0.5 | 1 | 3.5 |  | 0.5 |  |  |  | 1 | PITX2 | c. $282 \mathrm{G}>\mathrm{A}$ |
| 30 | F | 10 y | Reduced vision in both eyes | 10y | - | - | - | - | - | - | 2 | 0.5 | 0.5 |  |  | 3 |  | 1 | 1 | NA |
| 31 | M | 14 y | Reduced vision in both eyes | $14 y$ | 0.5 |  |  |  | 3.5 |  | 1 | - | - | - | - | - | - | 1 | 1 | NA |
| 32 | M | 14 y | Reduced vision in both eyes | $14 y$ |  |  | 4 |  |  |  | 1 |  |  | 4 |  |  |  | 1 | 1 | NA |
| 33 | M | 15 y | Reduced vision in both eyes | $15 y$ |  | 4 |  |  |  |  | 1 |  | 4 |  |  |  |  | 1 | 1 | NA |
| 34 | M | 16 y | Pain in both eyes | $16 y$ |  |  |  |  |  | 4 | 1 |  |  |  |  |  | 4 | 1 | 1 | NA |
| 35 | M | 22 y | Reduced vision in both eyes | $22 y$ |  |  |  |  |  | 4 | 2 |  |  |  |  |  | 4 | 1 | 1 | NA |
| 36 | F | 22 y | Pain in both eyes | 22y |  | 3 | 0.5 |  | 0.5 |  | 1 |  | 3 | 0.5 |  | 0.5 |  | 1 | 1 | NA |
| 37 | M | 32 y | Pain in both eyes | 32y | 3 |  | 1 |  |  |  | 2 | 3 |  | 1 |  |  |  | 2 | 1 | NA |
| 38 | M | 34 y | Reduced vision in both eyes | $34 y$ | 3 | 1 |  |  |  |  | 1 | 2.5 | 1.5 |  |  |  |  | 1 | 1 | NA |
| 39 | F | 36 y | Reduced vision in both eyes | $36 y$ | 1 |  |  |  | 0.5 | 2.5 | 1 | 1 |  |  |  | 0.5 | 2.5 | 1 | 1 | NA |
| 40 | F | 36 y | Pain in both eyes | $36 y$ | 1 |  |  |  | 3 |  | 1 | - | - | - | - | - | - | 1 | 1 | NA |
| 41 | F | 42 y | Reduced vision in the right eye | 42y |  | 3 | 0.5 | 0.5 |  |  | 1 |  | 3 | 1 |  |  |  | 1 | 1 | NA |
| 42 | M | 70 y | Reduced vision in both eyes | 70y | 3 | 1 |  |  |  |  | 2 | 3 | 1 |  |  |  |  | 1 | 1 | NA |

[^0]
[^0]:     left eye; $M$, male; $F$, female; -, excluded in this study; /, negative for the variant; NA, not applicable.

