Supplementary Data for

BMP6 regulates corneal epithelial stratification by coordinating their proliferation and differentiation, and is upregulated in pterygium

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Running Title: BMP6 and corneal epithelial stratification

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Supplementary Table 1. Pertinent details of pterygium subjects

| Subject # | Sex  | Age | Clinical Severity of Pterygium |
|-----------|------|-----|-------------------------------|
| 1         | Female | 35  | Grade-1                       |
| 2         | Female | 52  | Grade-3                       |
| 3         | Male   | 59  | Grade-3                       |

Supplementary Table 2. Oligonucleotide primers used and their sequence

**Human**

| Target   | Forward                  | Reverse                                                   |
|----------|--------------------------|-----------------------------------------------------------|
| BMP6     | CAGCCTGCAGGAAGCATGAG     | CAAAGTAAAGAACCAGGATG                                      |
| NOGGIN   | AGCGAGATCAAAACGCTGAGTT  | TCTGTAACTTCCTCCCCAGCTTCT                                   |
| BMPR1A   | GGTTCATAGCGGCAGACAT     | CTTTCCTTGCGGTCCATAAA                                      |
| BMPR2    | GCTAAAATTTGCAGCAAGC     | CTTGGGCCCCTATGTGTCACT                                     |
| KLF4     | TTCCCATCTCAAGCACCCT    | TGTTCACGTTAGTGCACTTGA                                     |
| Cyclin-D1| ATGGTCGTGGCCTCTAAGATGA  | CAGGTCCACTTGAGCTTGTTC                                     |
| Cyclin-D2| CACCGACTTTAAAGTGGCCA    | TTGTTGATCTTTAGCCAGCAG                                     |
| P21      | CATGTGGACCTGTCACTGTCTTC | GAAGATCGAGCCGGCGTTG                                      |
| DSG1     | AAAGCAGCGAGGCAGTGTCGGA  | CCAAGAGGCCTCCAGAGGTG                                      |
| DSP      | TGCTGACACTGAGCCAGACAG   | GCGTCTGCAGAGTGCCATA                                      |
| 18s rRNA | CCGTGTAATTGGGAATGAG     | GCTGGAATTCCGCCGCT                                        |

**Mouse**

| Target | Forward                  | Reverse                                                   |
|--------|--------------------------|-----------------------------------------------------------|
| Bmp6   | AAGACCCCGGTGTTGGCTCTTA  | CTGTGTGAGCTGCCCTTGT                                        |
| Noggin | TGCTGTACGCCTGGAATGA     | TGAGGTGCCAGAGACTTGGATG                                     |
| β-Actin| CCGTGAAAAGATGCCACCCAAG  | AGGCATAAGGGACAGCACA                                       |
| Antibody name       | Host    | Company                      | Catalogue Number |
|---------------------|---------|------------------------------|------------------|
| Anti-BMP6           | Goat    | R&D Systems                  | AF507            |
| Anti-CyclinD1/D2/D3 | Rabbit  | EMD-Millipore                | 06-137           |
| Anti-Ki67           | Rabbit  | Thermo Fisher Scientific     | RM-9106-S        |
| Anti-DSG            | Rabbit  | Santa Cruz Biotechnology     | sc-20114         |
| Anti-DSP            | Rabbit  | Santa Cruz Biotechnology     | sc-33555         |
| Anti-P21            | Mouse   | Neomarkers                   | Ms454-p1         |
| Anti-KLF4           | Goat    | R&D Systems                  | AF3158           |
| Anti-Rabbit IgG     | Goat    | LI-COR                       | 926-32211        |
| Anti-Rabbit IgG     | Donkey  | LI-COR                       | 926-32213        |
| Anti-Goat IgG       | Donkey  | LI-COR                       | 9266-8074        |
| Anti-Rabbit IgG     | Goat    | Thermo Fisher Scientific     | A11010           |
| Anti-Rabbit IgG     | Donkey  | Thermo Fisher Scientific     | A31572           |
| Anti-Goat IgG       | Donkey  | Thermo Fisher Scientific     | A11055           |
| Anti-mouse IgG      | Goat    | Thermo Fisher Scientific     | A11029           |
| Anti-Actin          | Rabbit  | Cell Signaling Technology    | D6A8             |
Supplementary Figure 1. Full images of the immunoblots presented in the manuscript.