

Table S1. Correlation of eyelid and lacrimal gland (LG) phenotypes in *Barx2* null mice

| Eye phenotype | LG phenotype | | | | Total number of eyes studied |
|---|-----------------------|-------|-----------|---------------|------------------------------|
| | Normal/slightly small | Small | Vestigial | Absence of LG | |
| Open eyelid eye surface inflammation | 0 | 7 | 3 | 1 | 11 |
| Normal eyelid closure (no inflammation) | 4 | 2 | 0 | 0 | 6 |
| Slit eye (internal eyelid surface fused with corneal surface) | 0 | 0 | 1 | 6 | 7 |

Correlation of eye inflammation, eyelid and LG defects was studied in 3- to 6-month-old *Barx2* null mice.