**Supplementary File 5. Primers used for mutations in TbAQP3.**

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| Mutations | Primer  | Sequence (altered base(s) underlined) | Plasmid | Template |
| W102I/R256L | W102I: HDK511 | CTCAGCATTACGCTTGGTATCGGCATTGCCGTCACGATG | pHDK71 | pRPaGFP-AQP3 |
| W102I: HDK512 | CATCGTGACGGCAATGCCGATACCAAGCGTAATGCTGAG |
| R256L: HDK513 | TACGCAATAAATCCGGCTCTTGACTTCGGTCCCAGGGTC |
| R256L: HDK514 | GACCCTGGGACCGAAGTCAAGAGCCGGATTTATTGCGTA |
| W102I/R256L/Y250L | Y250L HDK795 | CATCGGTTACTCAACGGGTCTCGCAATAAATCCGGCTCTT | pHDK121 | pHDK71 |
| Y250L HDK796 | AAGAGCCGGATTTATTGCGAGACCCGTTGAGTAACCGATG |