Supplementary Table 1

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|  | Vh (mV) | Slope factor | N | P value |
| Q1-WT | -20.38±3.20 | 18.17±2.24 | 4 | N/A |
| Q1-K362E | -21.87±3.11 | 15.13±2.29 | 4 | 0.750 |
| Q1-H363N | -24.33±0.96 | 18.81±0.62 | 12 | 0.124 |
| Q1-I368S | -14.37±2.21 | 16.08±1.75 | 8 | 0.174 |
| Q1-P369S | -18.53±1.14 | 10.85±0.95 | 4 | 0.585 |

Compared with Q1-WT, P value >0.05