

| Doc2 KO | | | | | | |
|-----------------------|-------------------|-------|--------------------|-------|-------------------|------|
| | Low [Ca] ~ 200 nM | | High [Ca] ~ 800 nM | | | |
| | mean | SEM | mean | SEM | | |
| fast burst (fF) | 49.76 | 12.90 | 72.10 | 9.87 | Ratio High/low Ca | |
| slow burst (fF) | 19.18 | 12.53 | 63.59 | 15.24 | | |
| fast time const. (ms) | 23.56 | 6.43 | 12.37 | 20.10 | | |
| slow time const. (s) | 0.22 | 0.07 | 0.16 | 0.05 | | |
| <i>Priming 1</i> | 19.18 | 12.53 | 63.59 | 15.24 | Mean | SEM |
| <i>Priming 2</i> | 2.59 | 0.70 | 1.13 | 0.28 | 3.32 | 0.70 |
| | | | | | 0.44 | 0.36 |

| DocB WT expression in KO | | | | | | |
|--------------------------|-------------------|-------|--------------------|-------|-------------------|------|
| | Low [Ca] ~ 200 nM | | High [Ca] ~ 800 nM | | | |
| | mean | SEM | mean | SEM | | |
| fast burst (fF) | 65.53 | 6.26 | 136.3 | 16.28 | Ratio High/low Ca | |
| slow burst (fF) | 61.48 | 8.21 | 82.69 | 11.76 | | |
| fast time const. (ms) | 15.05 | 1.91 | 10.57 | 1.83 | | |
| slow time const. (s) | 0.174 | 0.017 | 0.178 | 0.048 | | |
| <i>Priming 1</i> | 61.48 | 8.21 | 82.69 | 11.76 | Mean | SEM |
| <i>Priming 2</i> | 1.07 | 0.16 | 1.65 | 0.19 | 1.34 | 0.20 |
| | | | | | 1.55 | 0.19 |

| Doc2B DN expression in KO | | | | | | |
|---------------------------|-------------------|-------|--------------------|-------|-------------------|------|
| | Low [Ca] ~ 200 nM | | High [Ca] ~ 800 nM | | | |
| | mean | SEM | mean | SEM | | |
| fast burst (fF) | 124.4 | 16.33 | 124.5 | 14.82 | Ratio High/low Ca | |
| slow burst (fF) | 105.3 | 13.55 | 65.74 | 5.54 | | |
| fast time const. (ms) | 14.48 | 1.65 | 6.76 | 0.55 | | |
| slow time const. (s) | 0.15 | 0.012 | 0.106 | 0.022 | | |
| <i>Priming 1</i> | 105.3 | 13.55 | 65.74 | 5.54 | Mean | SEM |
| <i>Priming 2</i> | 1.18 | 0.18 | 1.89 | 0.15 | 0.62 | 0.15 |
| | | | | | 1.60 | 0.17 |

| | Low [Ca] | | High [Ca] | |
|---------------------------------|----------|------|-----------|------|
| Ratio <i>priming 1</i> Doc2B/KO | Mean | SEM | Mean | SEM |
| WT | 3.21 | 0.67 | 1.30 | 0.28 |
| DN | 5.49 | 0.67 | 1.03 | 0.25 |
| Ratio <i>priming 2</i> Doc2B/KO | Mean | SEM | Mean | SEM |
| WT | 0.41 | 0.31 | 1.45 | 0.27 |
| DN | 0.46 | 0.31 | 1.67 | 0.26 |

Figure 10 – Figure supplement 1.