Supplementary Table S1

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| --- | --- | --- |
| MCAK variant | WT | T537E |
|  | **(**s**)** (mean ± SEM) |
| Lattice residence time  | 0.48 ± 0.02(n = 526) | 0.42 ± 0.01(n = 622) |
|  |  |  |
|  | **(s-1)** (mean ± SD) |
| *koff* (MT lattice) | 2.90 ± 0.16 | 2.64 ± 0.19 |
| *koff* (MT end) | 0.98 ± 0.06 | 2.30 ± 0.40 |
|  |  |  |
|  | **(s-1)** (mean ± SD) |
| *kon* (MT) | 0.59 ± 0.28(n = 3) | 0.48 ± 0.06(n = 3) |