**Supplementary file 6. Comparison of kinetic parameters for AP3 vs. VapB promoters.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RNAP | *Mbo* | | | | ** | | |
|  |  |  | +RbpA | +RbpA |  |  |
| promoter | AP3 | VapB | AP3 | VapB | AP3 | VapB |
| *k*1 (M-1s-1) | 1.1 x 107 | 1.9 x 107 | 1.7 x 107 | 1.5 x 107 | 1.2 x 108 | 2.8 x 107 |
| *k*-1 (s-1) | 2.1 | 1.4 | 1.3 | 2.3 | 3.4 | 1.8 |
| K1(M-1) | 5.2 x 106 | 1.4 x 107 | 1.3 x 107 | 6.5 x 106 | > 3.5 x 107 | 1.6 x 107 |
| *k*2 (s-1) | 0.36 | 7.7 x 10-3 | 1.3 | 0.18 | 1.2 | 5.3 x 10-3 |
| *k*-2 (s-1) | 0.041 | 6.1 x 10-3 | 0.13 | 0.034 | 0.11 | 3.4 x 10-3 |
| K2 | 8.8 | 1.3 | 10 | 5.3 | 11 | 1.6 |
| *k*3 (s-1) | 0.035 | 0.035 | 0.082 | 0.010 | 0.083 | 0.026 |
| *k*-3 (s-1) | 0.014 | 9.8 x 10-3 | 0.013 | 2.3 x 10-3 | 0 | 4.9 x 10-3 |
| K3 | 2.5 | 3.6 | 6.3 | 4.3 | - | 5.3 |
| K1K2K3 | 1.2 x 108 | 6.1 x 107 | 8.3 x 108 | 1.5 x 108 | - | 1.3 x 108 |
| *k*da | 6.3 x 10-3 | 1.1 x 10-3 | 7.1 x 10-3 | 1.7 x 10-3 | - | 4.8 x 10-4 |
| t1/2 (min) | 1.8 | 9.8 | 1.6 | 6.8 | - | 24 |
| t1/2exp (min) | ~2 | ~5 | ~1.5 | ~4 | >> 60 |  |