# Supplementary File 4

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| --- | --- | --- | --- |
| Parameters | Value | Measurement method | Reference |
| $$c\_{A}$$(molecules/μm3) | ~33 | Imaging with Bcd-eGFP | (Gregor et al., 2007b) |
| ~84 | Extract using Bcd-eGFP imaging and FCS | (Abu-Arish et al., 2010) |
| ~210 | Comparison between immunostaining and imaging of Bcd-eGFP reveals ~ 2.5 time underestimation of Bcd concentration | (Liu et al., 2013) |
| $$D$$(μm2/s) | <1  | Imaging with Bcd-eGFP using FRAP | (Gregor et al., 2007a) |
| ~7.4 | Diffusion coefficient of fast-diffusing Bcd population, extracted using FCS and Bcd-eGFP | (Abu-Arish et al., 2010) |
| ~4.6 | Average diffusion coefficient, extract using FCS and Bcd-eGFP | (Abu-Arish et al., 2010) |
| $$a$$(nm) | 3 | Size for a single binding site of ~10bp |  |
| 0.3 | Size of a single nucleotide for exact match |  |

**Supplementary File 4.** Estimated values of Bcd concentration at the anterior ($c\_{A}$), diffusion coefficient ($D$) and the size of the target for binding ($a$) from previous work.

# References

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