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| **S3 Table. Parameters specific to the titration-of-nuclear-sites model.** | | | |
| **Parameter** | **Description** | **Value** | **Unit**a |
|  | association of Whi5 and SBF | 1 | AV/(AUmin) |
|  | association of Whi5 and Cln3 | 100 | AV/(AUmin) |
|  | dissociation of Cln3:Whi5 complexes | 0.1 | 1/min |
|  | Cln1/2-dependent phosphorylation of free Whi5 | 100 | AV/(AUmin) |
|  | Whi5 phosphorylation in Cln3:Whi5:SBF complexes | 1 | 1/min |
|  | Cln1/2-dependent hyper-phosphorylation of hypo-phosphorylated Whi5 in Whi5:SBF complexes | 3 | AV/(AUmin) |
|  | Cln3-dependent hyper-phosphorylation of hypo-phosphorylated Whi5 in Whi5:SBF complexes | 1 | AV/(AUmin) |
|  | Cln3 synthesis | 1.5 | AU/(moleculemin) |
|  | Whi5 synthesis | 0.02 | AU/(moleculemin) |
|  | total number of nuclear sites (occupied by SBF) | 1b | AU |

aAU, arbitrary unit of number of molecules; AV, arbitrary unit of cell volume.

bParameter corresponds to a haploid cell. Changes made for ploidy mutants are listed in S4 Table.