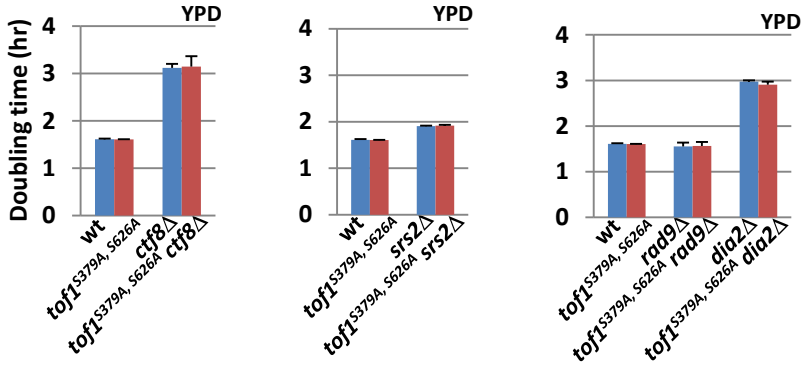
A.


YPD
Doubling time (hr)
0
1
2
3
4
wt
tof1S379A, S626A
ctf8Δ
tof1S379A, S626A ctf8Δ
YPD
srs2Δ
tof1S379A, S626A srs2Δ
YPD
rad9Δ
tof1S379A, S626A rad9Δ
dia2Δ
tof1S379A, S626A dia2Δ

B.

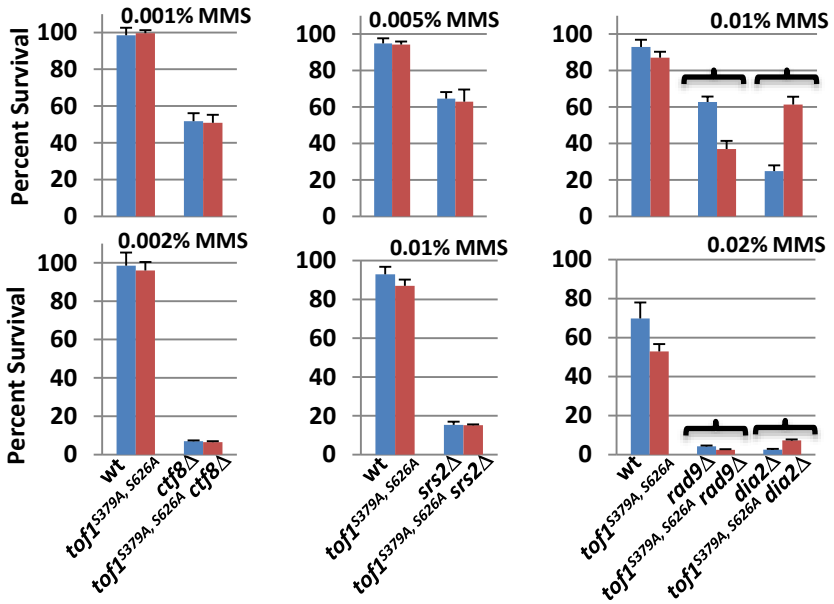

0.001% MMS
0.005% MMS
0.01% MMS
0.002% MMS
0.01% MMS
0.02% MMS
Percent Survival
0
20
40
60
80
100
wt
tof1S379A, S626A
ctf8Δ
tof1S379A, S626A ctf8Δ
srs2Δ
tof1S379A, S626A srs2Δ
rad9Δ
tof1S379A, S626A rad9Δ
dia2Δ
tof1S379A, S626A dia2Δ

Figure S6. Screen for genetic interactions with *tof1*$^{S379A, S626A}$ in the absence or presence of MMS. A) The *tof1*$^{S379A, S626A}$ *xxx*Δ double mutants did not show enhanced growth defects in YPD. The Log phase cultures of the wild type and mutant strains were diluted in YPD so that every culture started at cell density of 5X10^5 cells / ml. The cell density of each culture was subsequently measured every 2 hours for 10 hours. The doubling time were calculated as in Figure 2A. Three independent, PCR-confirmed gene knockout transformants of each genotype were assayed, and the error bars represent the standard deviation for the three isolates. **B) *tof1*$^{S379A, S626A}$ show genetic interactions with *rad9*Δ and *dia2*Δ in the presence of MMS.** The log-phase wild type and mutant cells were serially diluted in PBS and spread onto YPD, YPD + MMS plates. Viable cells were determined as in Figure 2B. Three independent, PCR-confirmed gene knockout transformants of each strain were tested, and the error bars represent the standard deviation for the three isolates. The *tof1*$^{S379A, S626A}$ *xxx*Δ strains that show significant difference in MMS-sensitivity from that of *xxx*Δ were indicated with curly brackets and subjected to further assays as shown in Figure 3A.