

(C), but decreased silencing of endogenous ORF YFR057W on VIR (D). Error bars indicate standard error of the mean. See also Supplemental Figure S6.

Figure 6. Sgf73 interacts with Sir2. (A), Interaction of recombinant Sir2-GST and Sgf73-GFP in the presence and absence of Sir2. Immunoprecipitation was done with glutathione beads coupled to either GST tagged Sir2, GST tagged enzymatically dead Sir2R319K, or GST, and western blot was probed with anti-GFP. (B), Interaction of endogenous Sir2 and Sgf73-GFP. Immunoprecipitation was done using anti-GFP antibody and western blots were probed using anti-Sir2 antibody.

SUPPORTING FIGURE LEGENDS

Supplemental Figure S1. Effect of *sus1Δ* and of combined *sgf73Δ* and *ubp8Δ* deletions on yeast RLS. (A), deletion of DUBm component *SUS1* does not extend RLS. (B), deletion of *UBP8* does not further extend RLS of *sgf73Δ*. Legends show (mean RLS, number of mother cells scored), related to Figure 1.

Supplemental Figure S2. Effect on yeast RLS of deletion of other non-essential components of SAGA. Legends show (mean RLS, number of mother cells scored), related to Figure 1.

Supplemental Figure S3. Deletion of *UBP10* does not increase RLS, and in fact decreases it. Legend shows (mean RLS, number of mother cells scored), related to Figure 1.

Supplemental Figure S4. *RTG1* (A) and *RTG3* (B) are not required for the extended RLS of *sgf73Δ*. Legends show (mean RLS, number of mother cells scored), related to Figure 3.

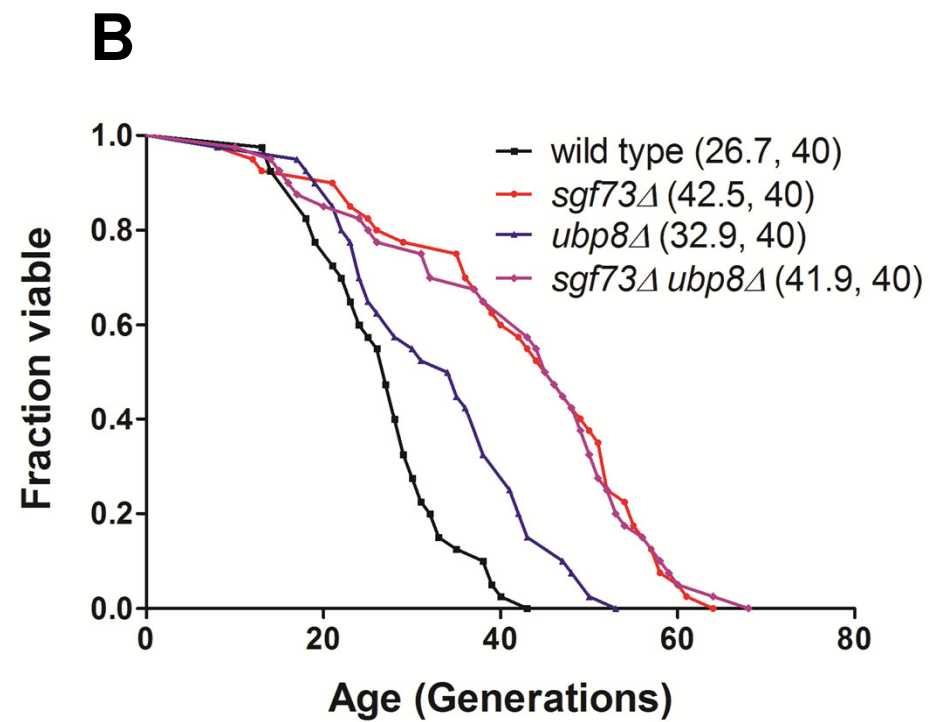
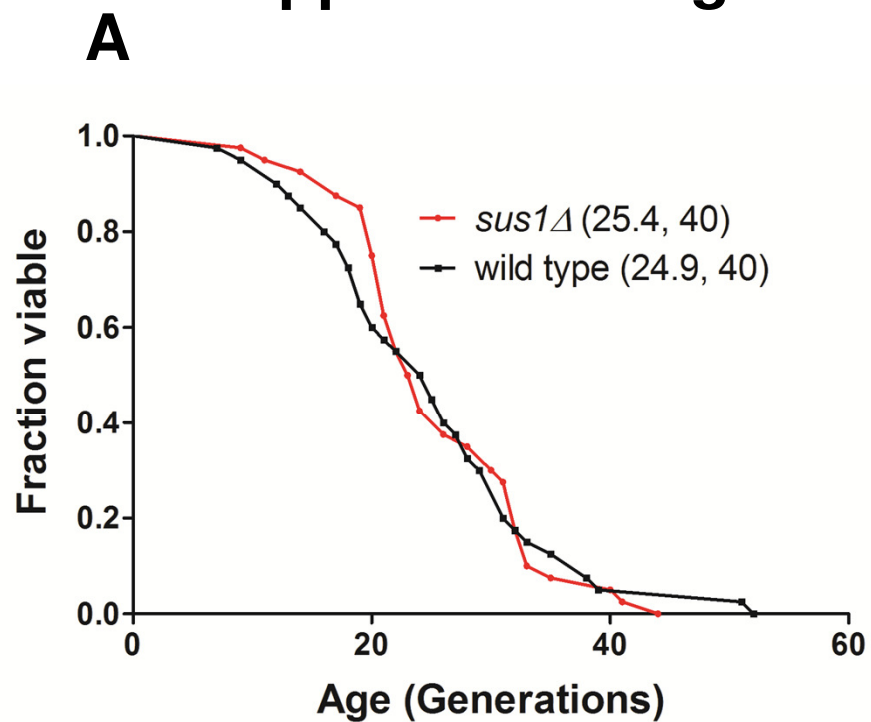
Supplemental Figure S5. *sgf73Δ* and *ubp8Δ* are much longer-lived than *fob1Δ* or *SIR2*-OE. Legend shows (mean RLS, number of mother cells scored), related to Figure 4.

Supplemental Figure S6. (A), The *sgf73Δ sir2Δ fob1Δ spt8Δ* strain is not long-lived, as is the case with *sgf73Δ sir2Δ fob1Δ*. (B), rDNA recombination remains high in double mutants lacking both *SGF73* and *SIR2*, related to Figure 5. Error bars represent standard error of the mean.

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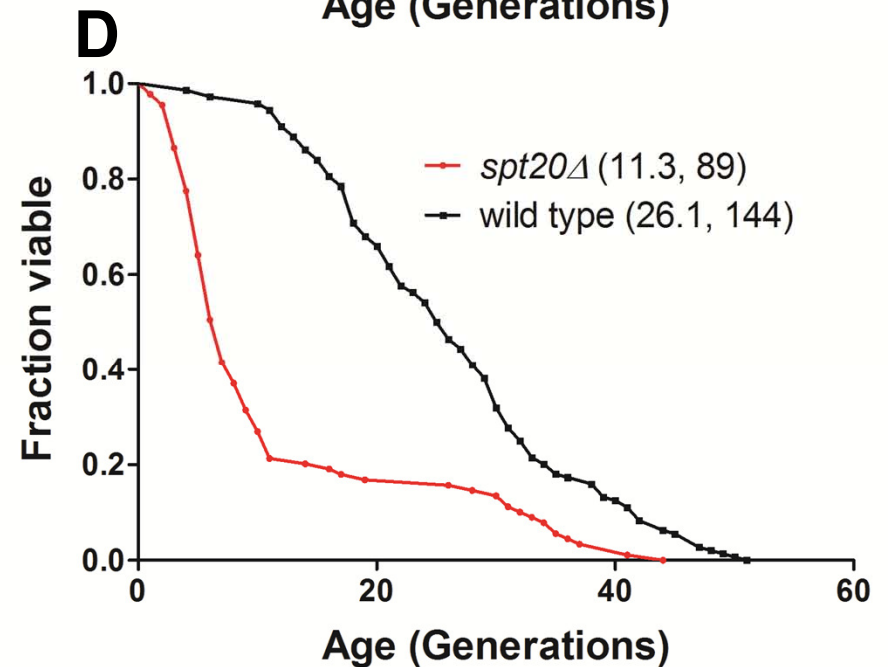
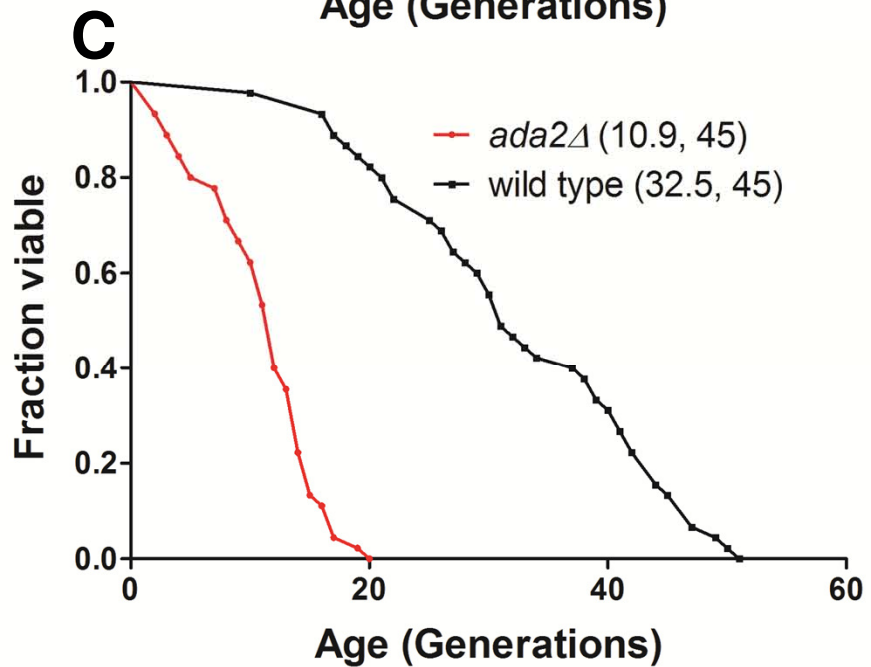
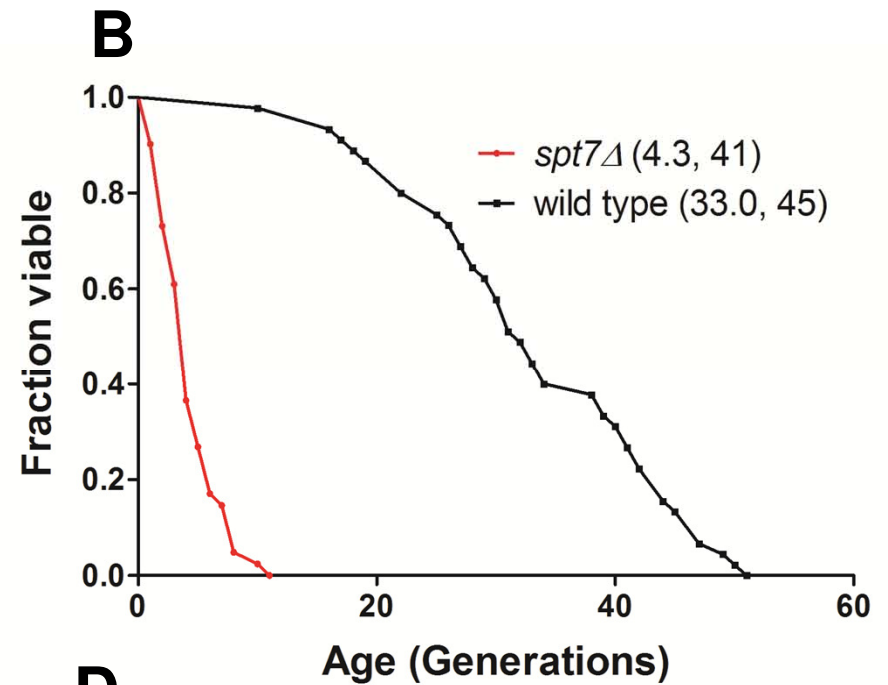
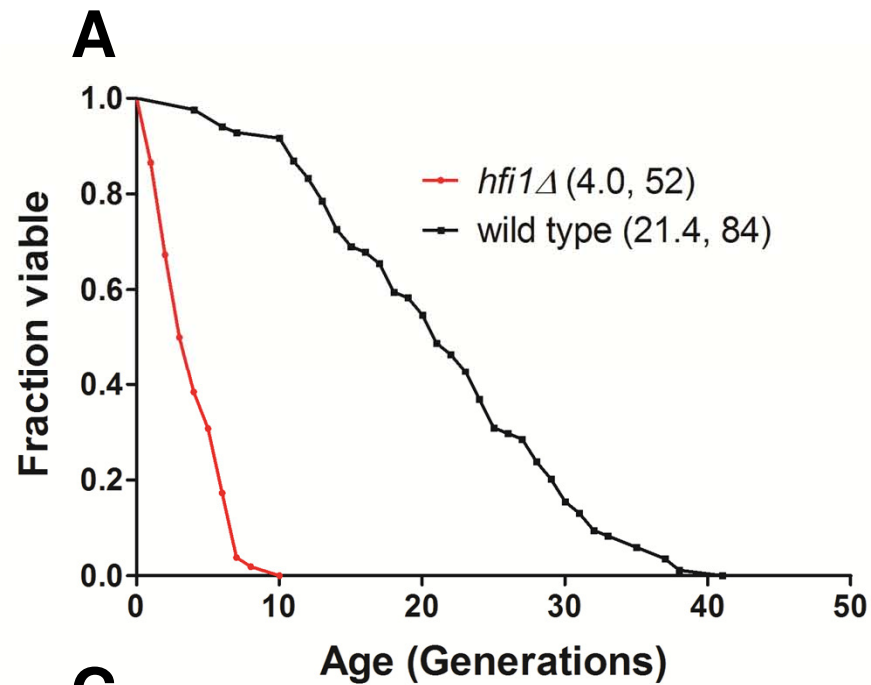
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Supplemental Figure S1

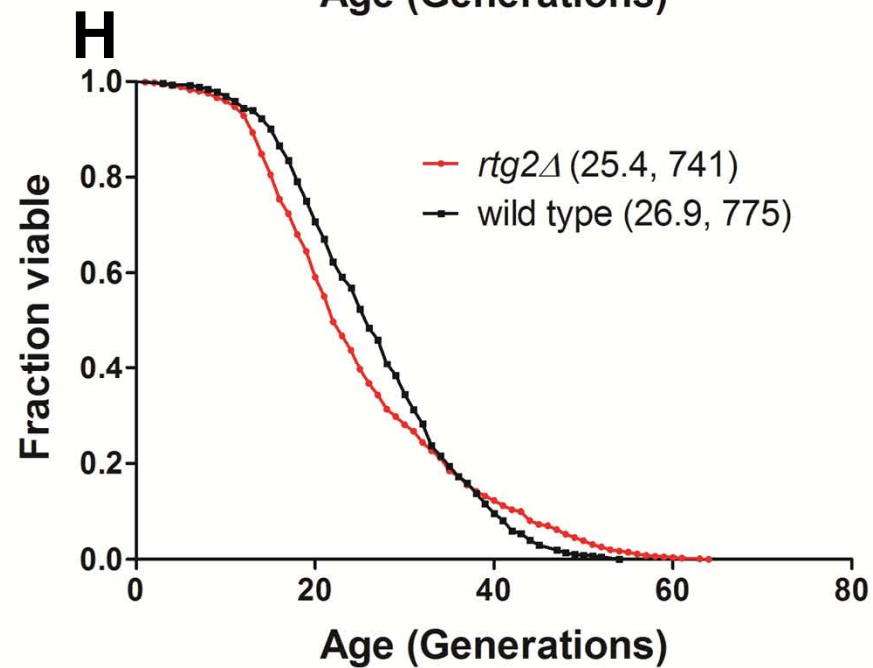
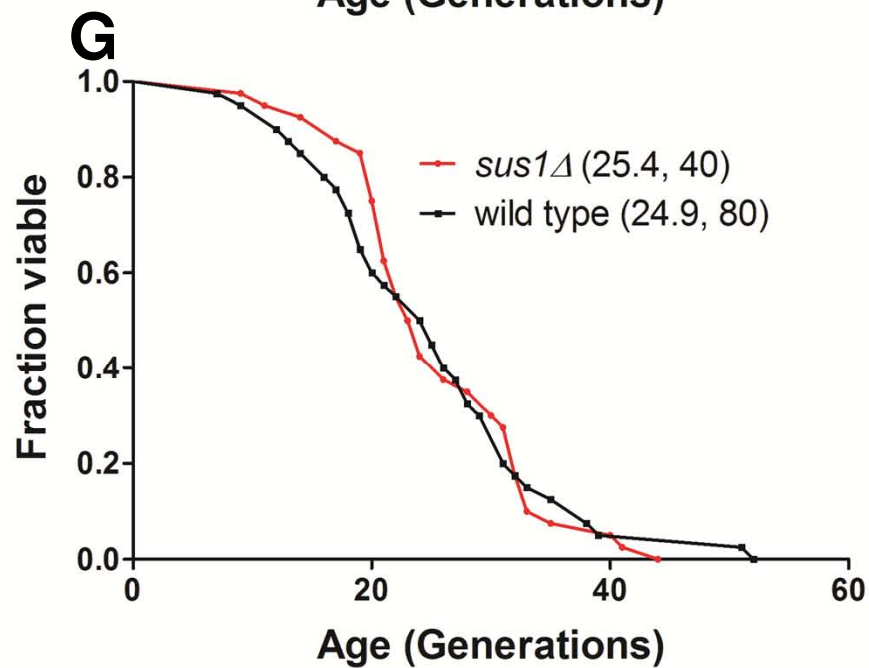
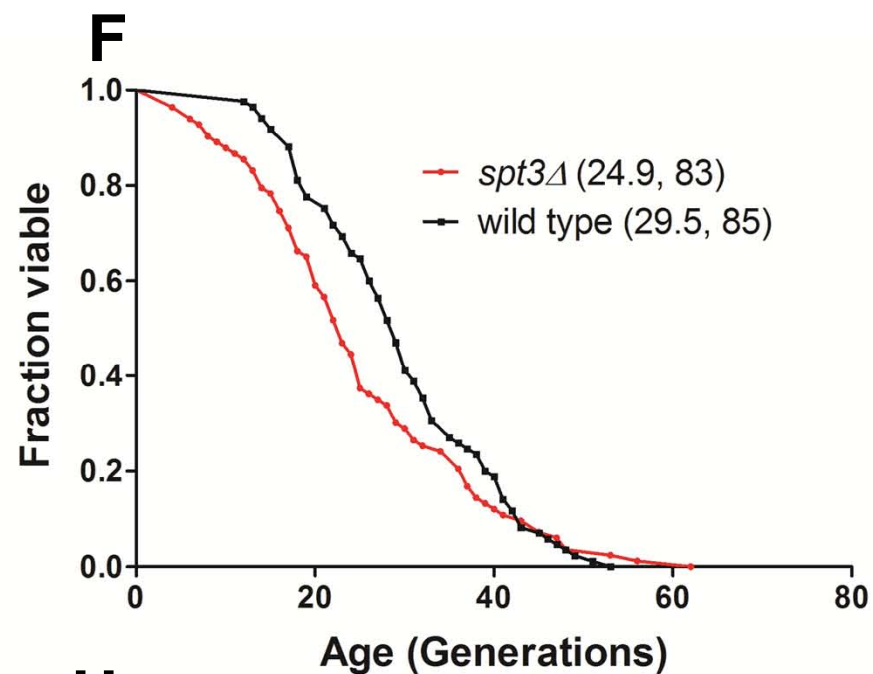
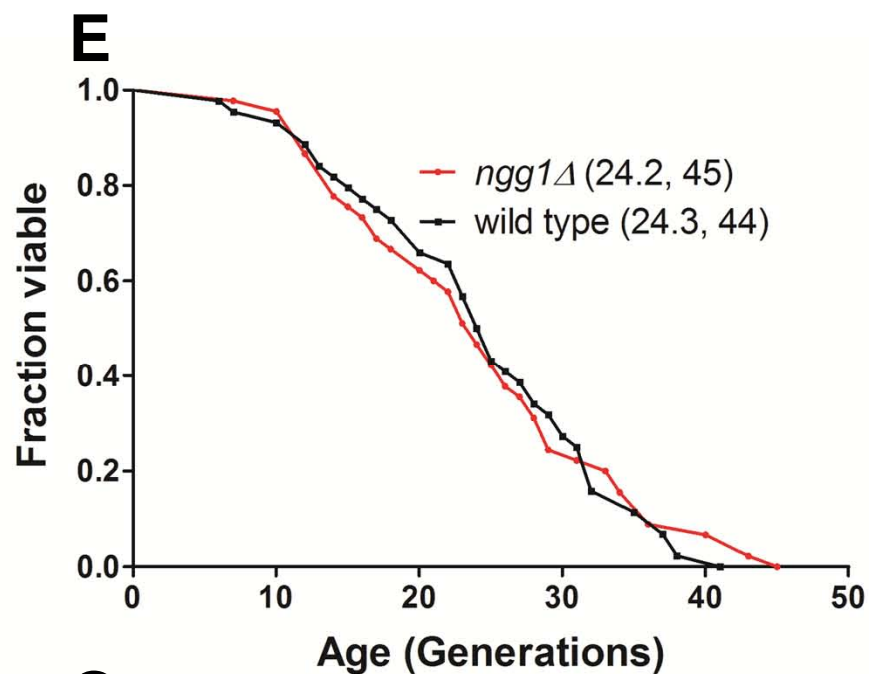


Supplemental Figure S1. Effect of *sus1* Δ and of combined *sgf73* Δ and *ubp8* Δ deletions on yeast RLS. (A), deletion of DUBm component *SUS1* does not extend RLS. (B), deletion of *UBP8* does not further extend RLS of *sgf73* Δ . Legends show (mean RLS, number of mother cells scored), related to Figure 1.

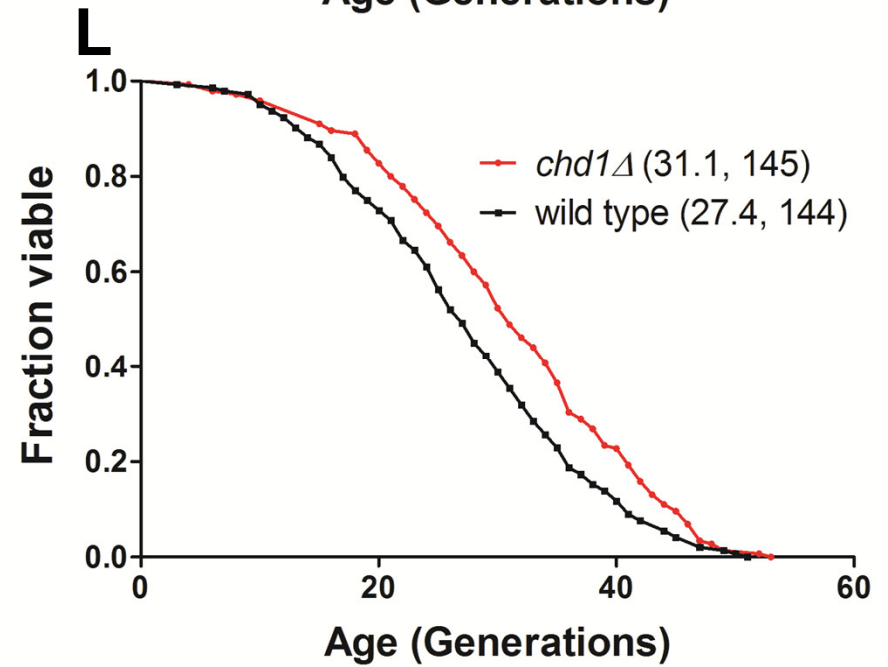
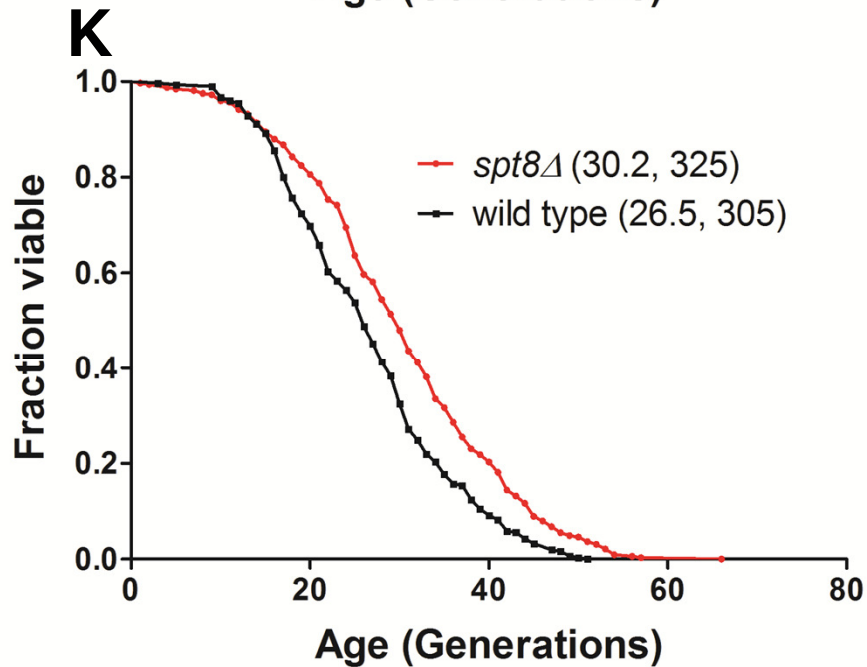
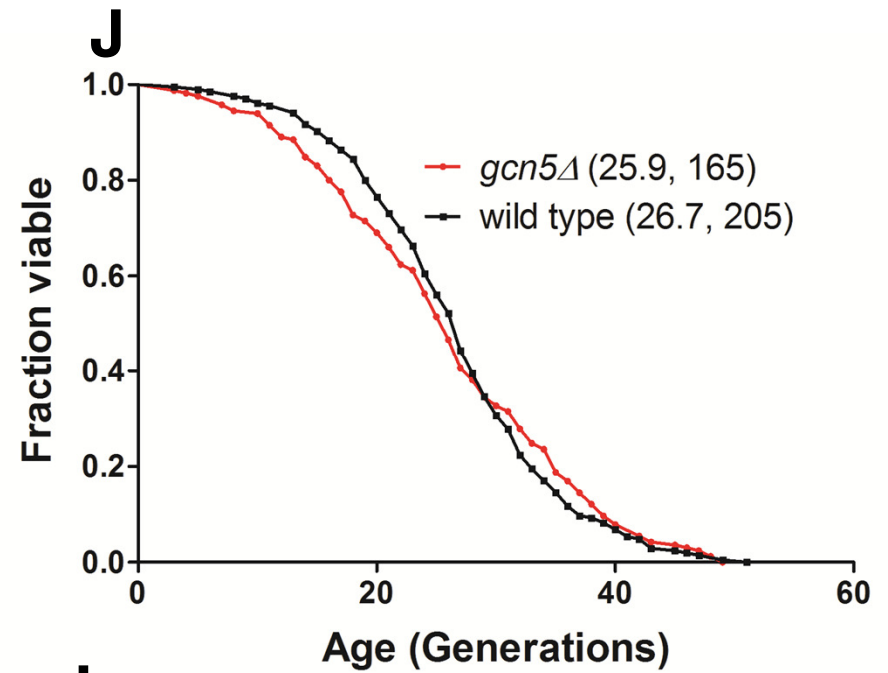
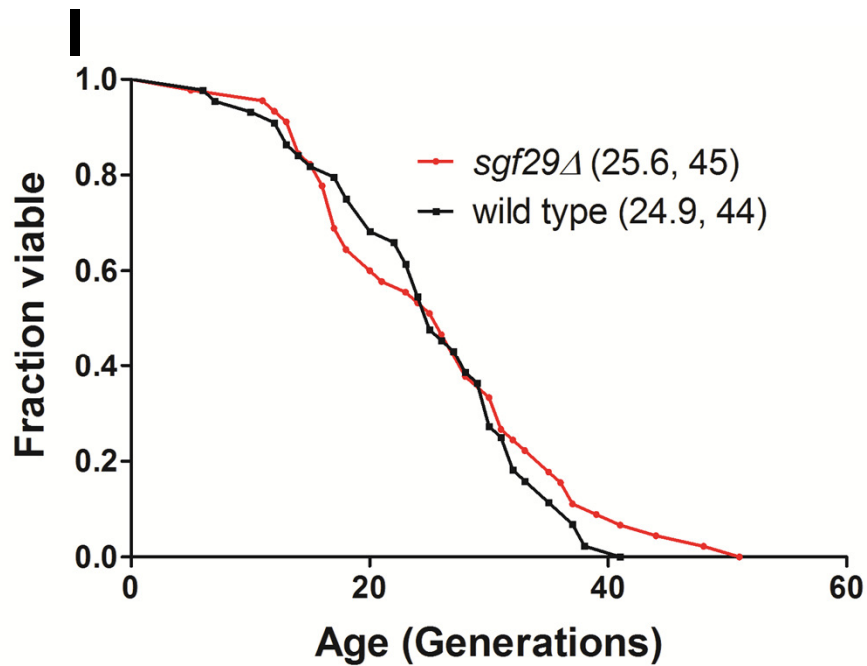
Supplemental Figure S2



Supplemental Figure S2 continued

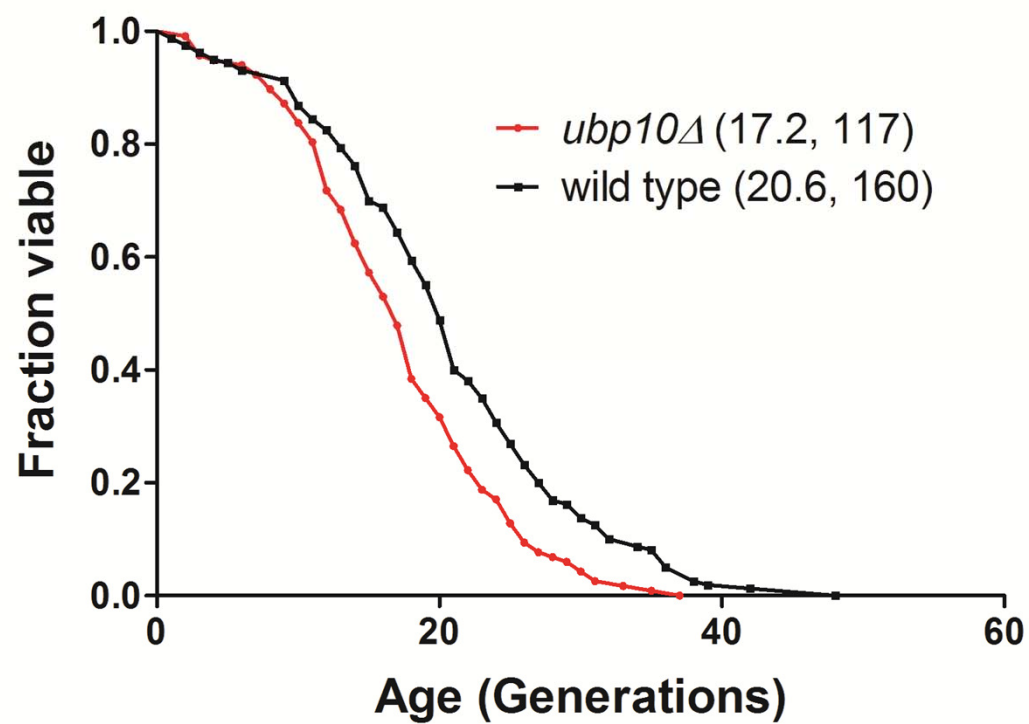


Supplemental Figure S2 continued



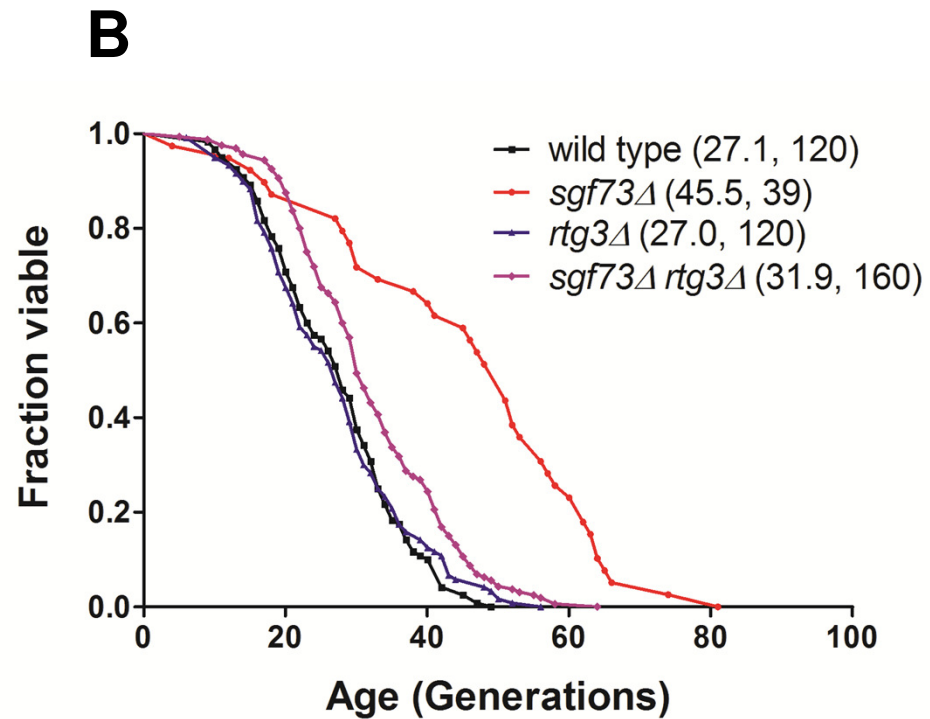
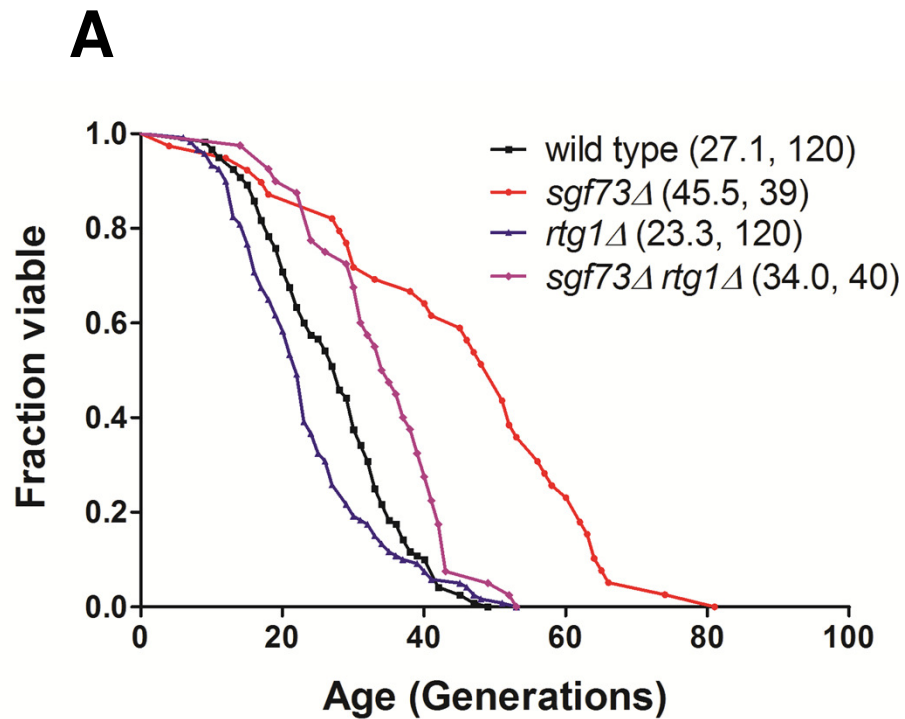
Supplemental Figure S2. Effect on yeast RLS of deletion of other non-essential components of SAGA. Legends show (mean RLS, number of mother cells scored), related to Figure 1.

Supplemental Figure S3



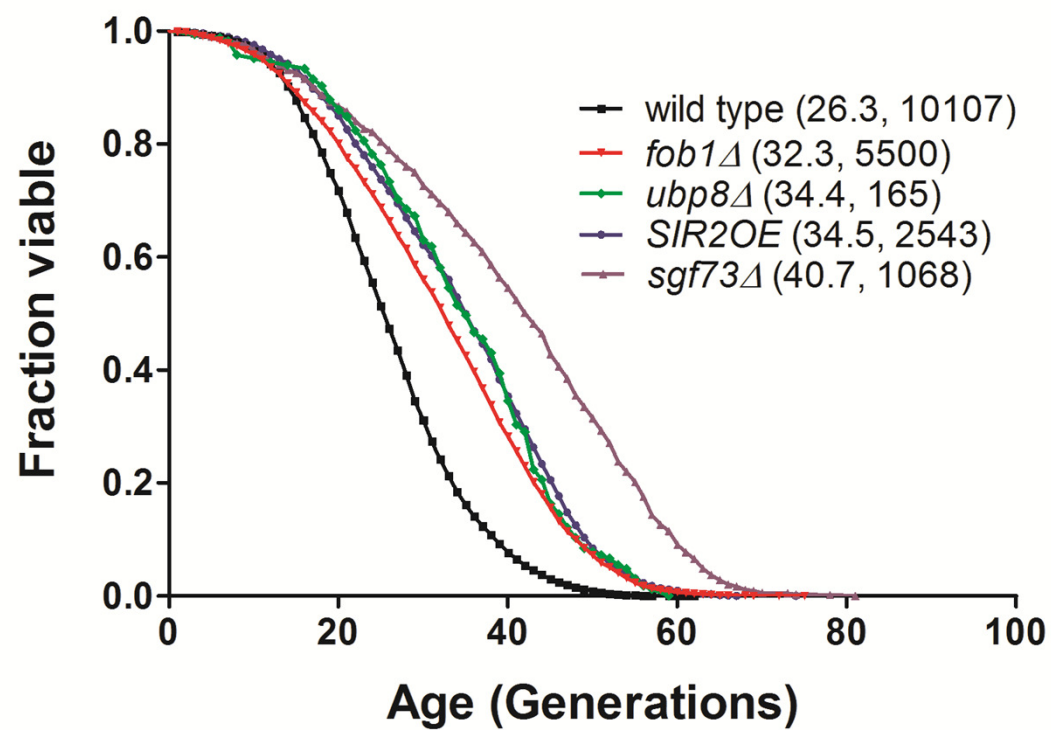
Supplemental Figure S3. Deletion of *UBP10* does not increase RLS, and in fact decreases it. Legend shows (mean RLS, number of mother cells scored), related to Figure 1.

Supplemental Figure S4



Supplemental Figure S4. *RTG1* (A) and *RTG3* (B) are not required for the extended RLS of *sgf73Δ*. Legends show (mean RLS, number of mother cells scored), related to Figure 3.

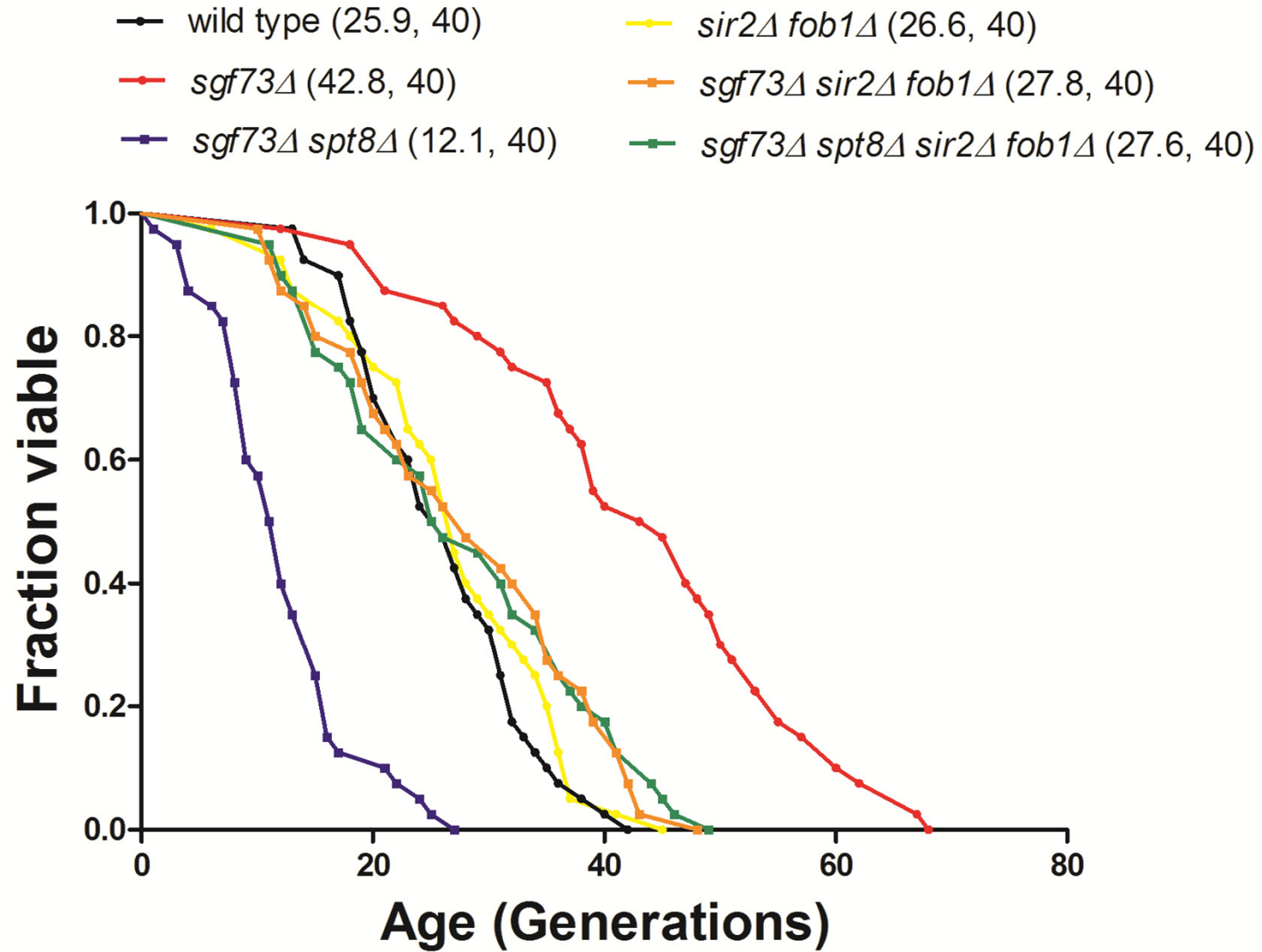
Supplemental Figure S5



Supplemental Figure S5. *sgf73* Δ and *ubp8* Δ are much longer-lived than *fob1* Δ or *SIR2*-OE. Legend shows (mean RLS, number of mother cells scored), related to Figure 4.

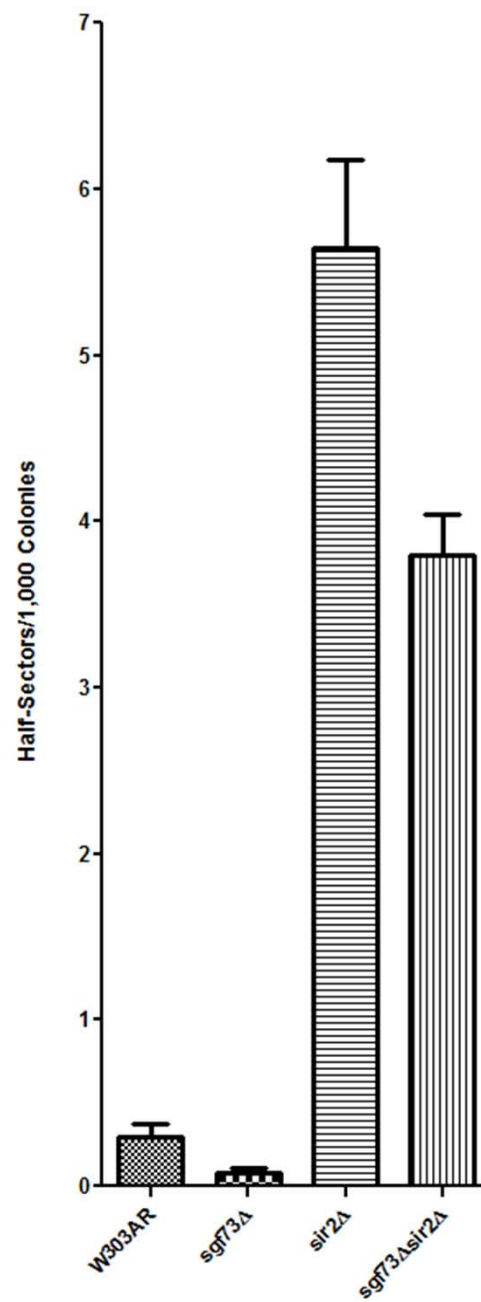
Supplemental Figure S6

A



Supplemental Figure S6, continued

B



Supplemental Figure S6. (A), The *sgf73D sir2D fob1D spt8D* strain is not long-lived, as is the case with *sgf73D sir2D fob1D*. (B), rDNA recombination remains high in double mutants lacking both *SGF73* and *SIR2*, related to Figure 5.