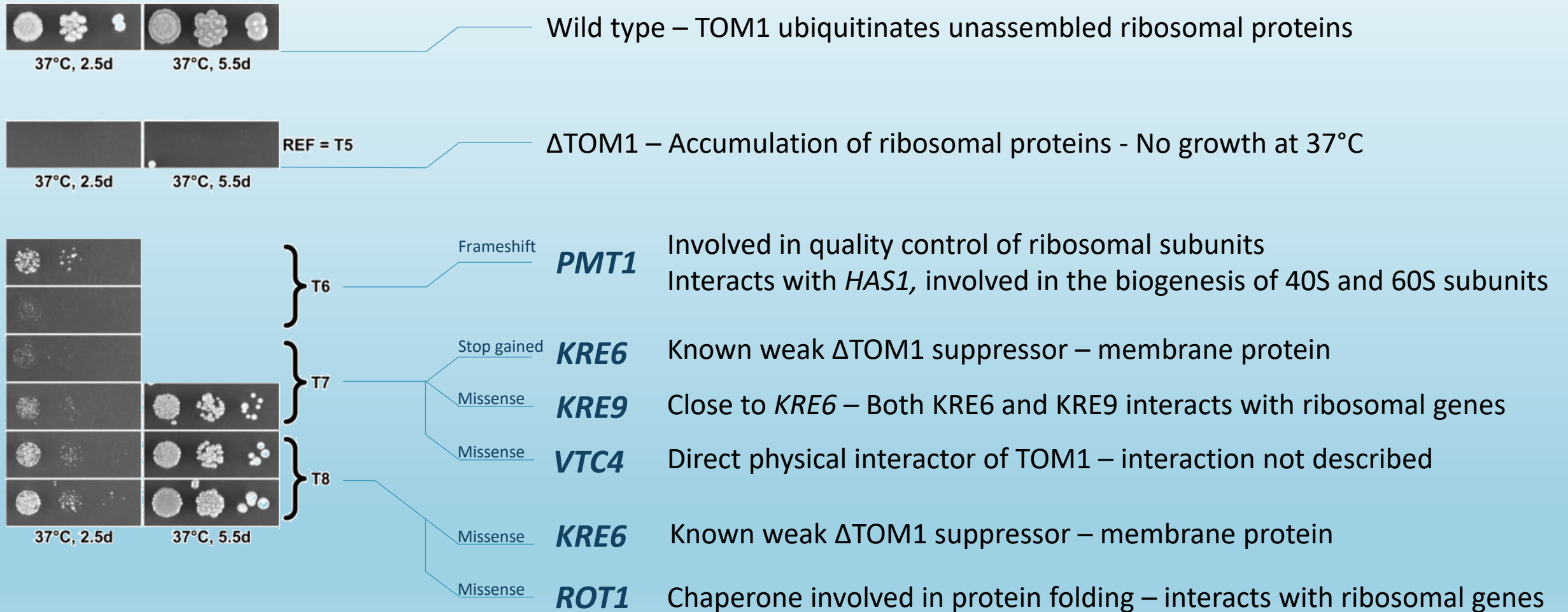


Identification of Δ TOM1 suppressors in *S. Cerevisiae*



Identification of gai phenotype revertant mutations in *Arabidopsis thaliana*

gai phenotype : 51bp deletion in DELLA domain -> no growth

gar (gai revertant): have the 51bp deletion but grow

Gar12

- Original deletion +1 bp: Frameshift deletion that affects the entire protein – DELLA cannot repress ➡ growth




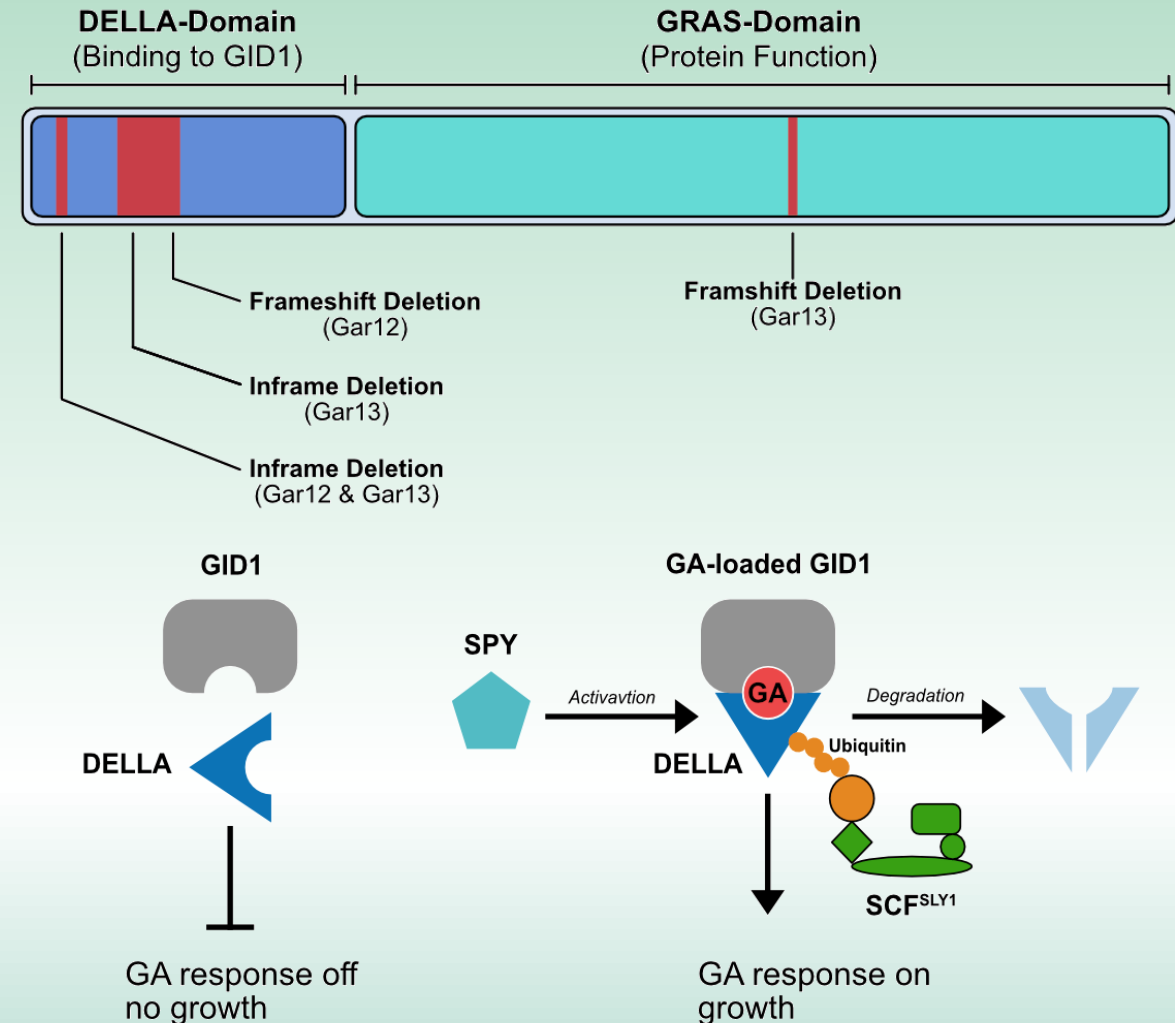
Gar13

- Original 51bp deletion
- Frameshift deletion in GRAS-domain ➡ growth

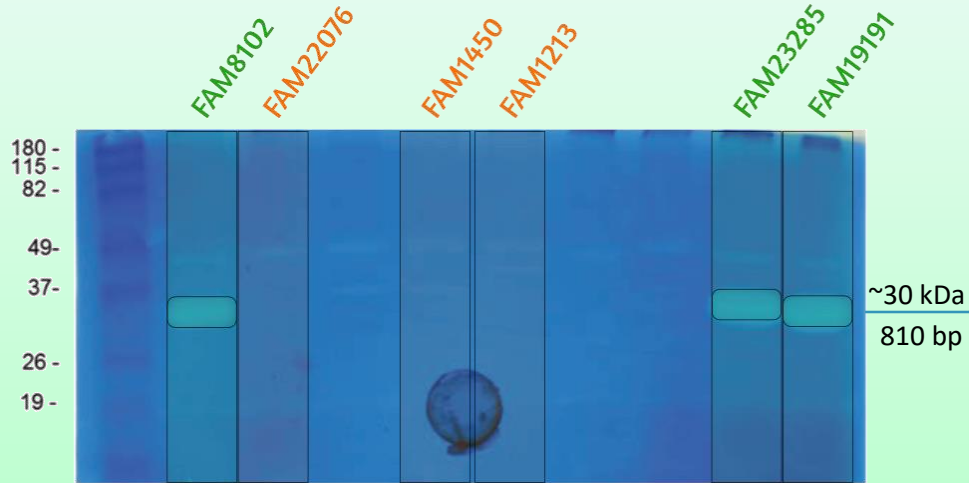


Gar12 & Gar13

One missense mutation in *SPY* 
Inframe 3bp deletion in DELLA

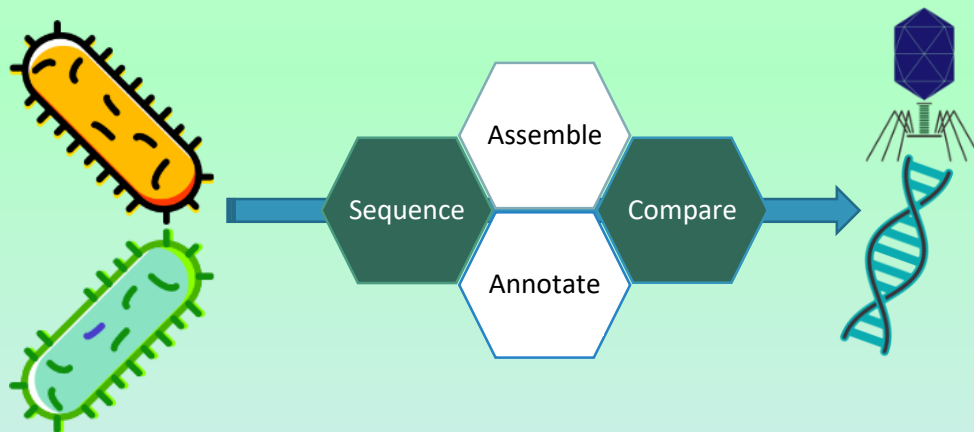


Lactobacillus helveticus Genome De Novo Assembly



Peptidoglycan hydrolases (PGHs): enzymes used in cheese ripening

3 strains show a specific PGH activity, 3 do not.



One gene matching group and size:

- Lhv_2053, Lysin, pseudogene in *L. helveticus*.
- 893 bp / 33 kDa

Provenance: Bacteriophage Cp-1