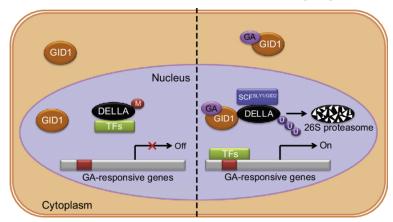
Growth of secondary mutants: suppressors of *gai*



In absence of GA (left), the DELLA protein called GAI, binds to the transcription factors blocking the gibberellin response

no growth
 In presence of GA (right), the DELLA protein is degraded and the gibberellin response is activated
 growth

Arabidopsis thaliana

gai (deletion of 51bp)

Don't grow

gai gar15 and gai gar17

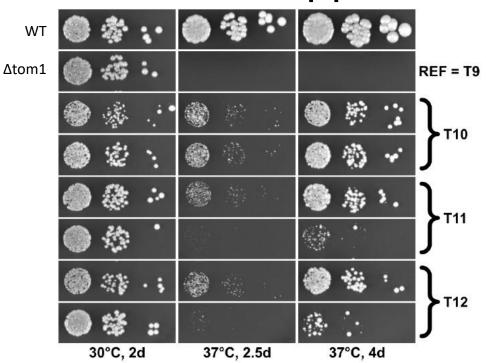
Grow again

gar17: deletion of 52bp

gar15: other deletion of 19bp

➤ Shift in the reading frame of the *gai* gene!

Growth of secondary mutants : suppressors of $\Delta tom 1$



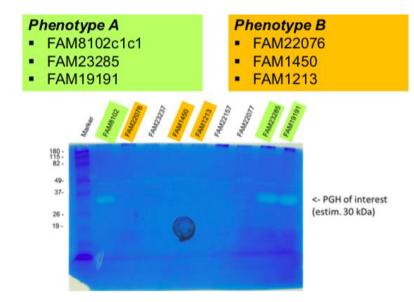
Saccharomyces cerevisiae

TOM1 ubiquitinates unassembled ribosomal proteins $\Delta tom1 \rightarrow$ accumulation of ribosomal proteins + no growth at 37°C

T10 and T11: mutations in *sch9* and *kre6* for each of them (direct interactors)

T12: mutation in Kar2 (indirect interactor) and mutation in GLR1 and YNR075C-A (interaction unknown)

Gene associated with cheese ripening



PGH = Peptidoglycan hydrolase (useful for cheese ripening)
New gene in A or loss of gene function in B?

Lactobacillus helveticus

De novo assembly because there is no specific reference for our strains

30kDa = c. 810bp

New gene in A resembling *Lhv_2053* and coding for a lysin (component of PGH)