



myBIOS



myPICHIA[®] Toolbox

Strains and plasmids for methanol-free inducible protein production in *Pichia pastoris*

myBIOS GmbH
www.myBIOS.at



The myPICHIA[®] platform

Accelerate discovery with our growing portfolio of *Pichia pastoris* (syn. *Komagataella phaffii*) strains and plasmids, designed to enable methanol-free, inducible protein production.



Explore the latest additions on the myPICHIA[®] platform, while our experts remain dedicated to expanding and optimizing the technology to support the scientific challenges of tomorrow.

Modular expression vector systems



Select your promoter/inducer system

Driving the future of protein production, we offer advanced inducible systems for methanol-free processes. P_{DUO1} provides robust induction with methanol and alternative inducers, and P_{DUO2} is currently being developed to unlock the next generation of methanol-free manufacturing.

- P_{DUO1}: is strongly induced by methanol and **alternative non-toxic inducers**.
- P_{DUO2}: for next generation methanol-free processes.
- **Alternative**: standard *Pichia* promoters like P_{GAP}, P_{TEF1} or P_{AOX1}

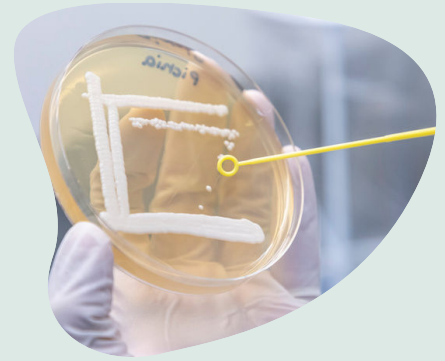
Select your targeting sequence

Select a signal peptide from our library, including the standard *S. cerevisiae* α -factor signal peptide and its variants (**α MF**), **SUC2** (*S. cerevisiae*), or **PHO1** (*P. pastoris*). You may choose a signal peptide yourself, or **myBIOS can recommend the most suitable option** based on your target protein. Alternatively, if applicable, you can use the **native signal sequence** of your protein of interest, or select **NoSignal** for intracellular expression.

Select your selection marker

- Antibiotic resistance markers (ABR), conferring resistance to Phleomycin (Zeocin[®]) or Kanamycin/Geneticin[™](G-418).
- Antibiotic-marker free:
 - Include recognition sites for marker recycling with recombinase (ABR-FRT)
 - Auxotrophic markers (AUX) such as HIS4 or ARG4 genes, and their respective strains.

Available strains (Oct. 2026)



Methanol slow (MutS)

CBS2612 $\triangle aox1$

Auxotrophic

CBS2612 $\triangle his4$

CBS2612 $\triangle arg4$

CBS2612 $\triangle his4 \triangle arg4$

CBS2612 $\triangle aox1 \triangle his4$

CBS2612 $\triangle aox1 \triangle arg4$

CBS2612 $\triangle aox1 \triangle his4 \triangle arg4$

Protease deficient and auxotrophic

CBS7435 $\triangle pep4 \triangle his4$

CBS7435 $\triangle pep4 \triangle his4 \triangle aox1$

CBS7435 $\triangle pep4 \triangle his4 \triangle arg4 \triangle aox1$

ER-up chassis

CBS2612 $\triangle aox1 PDI$

CBS2612 $\triangle aox1 ERO1$

CBS2612 $\triangle aox1 KAR2$

CBS2612 $\triangle aox1 \triangle arg4 PDI$

CBS2612 $\triangle aox1 \triangle arg4 ERO1$

CBS2612 $\triangle aox1 \triangle arg4 KAR2$

CBS7435 $\triangle pep4 \triangle aox1 PDI$

CBS7435 $\triangle pep4 \triangle aox1 ERO1$

CBS7435 $\triangle pep4 \triangle aox1 KAR2$

CBS7435 $\triangle pep4 \triangle aox1 PDI ERO1$

CBS7435 $\triangle pep4 \triangle aox1 PDI KAR2$

CBS7435 $\triangle pep4 \triangle aox1 \triangle arg4 PDI$

CBS7435 $\triangle pep4 \triangle aox1 \triangle arg4 ERO1$

CBS7435 $\triangle pep4 \triangle aox1 \triangle arg4 KAR2$

UPR-up chassis

CBS2612 $\triangle aox1 HAC1$

CBS2612 $\triangle aox1 \triangle arg4 HAC1$

CBS7435 $\triangle pep4 \triangle aox1 HAC1$

CBS7435 $\triangle pep4 \triangle aox1 \triangle arg4 HAC1$

Cytosol-up chassis

CBS2612 $\triangle aox1 YDJ1$

CBS2612 $\triangle aox1 SSA1$

CBS7435 $\triangle pep4 \triangle aox1 YDJ1$

CBS7435 $\triangle pep4 \triangle aox1 SSA1$

Translocation-up chassis

CBS2612 $\triangle aox1 SEC63$

CBS7435 $\triangle pep4 \triangle aox1 SEC63$

EMF chassis (Enhanced MeOH-free)

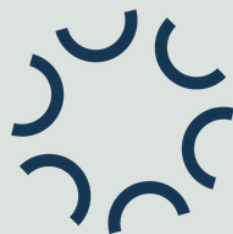
CBS2612 $\triangle aox1 EMF1$

CBS2612 $\triangle aox1 EMF2$

CBS7435 $\triangle pep4 \triangle aox1 EMF1$

CBS7435 $\triangle pep4 \triangle aox1 EMF2$

More to
come...



myBIOS

Let's connect

Discover our technology,
expertise, and latest updates.



*"We believe the future of biotechnology lies in smart
expression platforms, sustainable processes, and strong
partnerships."*

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