

Matchmaker® Gold Yeast Two-Hybrid System

Catalog No.	Amount	Lot Number
630489	each	Specified on product label.

Description

Complete GAL4-based two-hybrid system to detect protein interactions. Yeast strain Y2HGold facilitates the elimination of many false positives that arise when screening an activation domain (AD) fusion library, because it contains four separate reporter genes that can be used to select for protein interactions. The system is also characterized by low background due to the Aureobasidin A resistance marker.

Package Contents

Box 1:

- 50 µl pGBKT7 DNA-BD Cloning Vector (0.1 µg/µl)
- 50 µl pGADT7 AD Cloning Vector (0.1 µg/µl)
- 50 µl pGBKT7-53 Control Vector (0.1 µg/µl)
- 50 µl pGADT7-T Control Vector (0.1 µg/µl)
- 50 µl pGBKT7-Lam Control Vector (0.1 µg/µl)

Box 2:

- 0.5 ml *S. cerevisiae* Y2HGold
- 0.5 ml *S. cerevisiae* Y187

Box 3:

- 1 pouch YPDA Broth
- 1 pouch YPDA with Agar
- 1 pouch SD/-Leu with Agar
- 1 pouch SD/-Trp with Agar

Box 4:

- Yeastmaker™ Yeast Transformation System 2 (Box 1 of 2):
 - 2 x 1 ml Yeastmaker Carrier DNA, denatured (10 mg/ml)
 - 20 µl pGBT9 (0.1 µg/µl; control plasmid)

Box 5:

- Yeastmaker Yeast Transformation System 2 (Box 2 of 2):
 - 2 x 50 ml 50% PEG
 - 50 ml 1 M LiAc (10X)
 - 50 ml 10X TE Buffer
 - 50 ml YPD Plus Liquid Medium

Storage Conditions

- Store Boxes 1 & 4 at -20°C.
- Store Box 2 at -70°C.
- Store Boxes 3 & 5 at room temperature.

Takara Bio USA, Inc.

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Expiration Date

- Specified on product label.

Shipping Conditions

- Boxes 1, 2 & 4: Dry ice (-70°C)
- Boxes 3 & 5: Room temperature

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- Matchmaker Gold Yeast Two-Hybrid System User Manual
- Yeastmaker Yeast Transformation System 2 User Manual
- pGADT7 AD Vector Information
- pGBKT7 Vector Information

Quality Control Data

Plasmid Identity & Purity

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

Vector	Enzyme(s)	Size (kb)
pGADT7 AD	HindIII	7.2 & 0.8
	EcoRI	8.0
pGBKT7 DNA-BD	BssHII/HindIII	5.0, 1.5, 0.7 & 0.2
pGBKT7-Lam	BamHI/EcoRI	7.3 & 0.57
pGADT7-T	XhoI/EcoRI	8.0 & 2.0
pGBKT7-53	BamHI/EcoRI	7.3 & 1.0

- A_{260}/A_{280} : 1.8–2.0

Yeast strains

- The nutritional requirements (i.e., auxotrophic markers) of the two yeast host strains were verified by streaking samples onto six types of SD minimal media: SD/-Ade, SD/-His, SD/-Leu, SD/-Trp, SD/-Ura, and SD/-Met.
- Reporter function. The function of the *ADE2*, *HIS3*, *MEL1* and *AURI-C* reporters in the Y2HGold yeast strain were verified using positive and negative control plasmids and plating on minimal media lacking adenine and histidine, and containing X-alpha-Gal and Aureobasidin A.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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