

Materials List for:

# Transmembrane Domain Oligomerization Propensity determined by ToxR Assay

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URL: <https://www.jove.com/video/2721>

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## Materials

Name	Company	Catalog Number	Comments
BamHI restriction enzyme	Invitrogen	15201023	Invitrogen enzymes were found to be more efficient than alternative suppliers
NheI restriction enzyme	Invitrogen	15444011	Invitrogen enzymes were found to be more efficient than alternative suppliers
15 mL culture tubes	Fisher Scientific	14-956-1J	
SOC media	TEKnova, Inc.	S0225	Made up to the appropriate volume and sterilized by autoclaving.
LB media	Sigma-Aldrich	L7275	Made up to the appropriate volume and sterilized by autoclaving.
Chloramphenicol	Sigma-Aldrich	CO <sub>3</sub> 78	Stock solution of 30 mg/ mL in ethanol stored in freezer
Arabinose	Fluka	10839	Stock solution of 2.5% (w/v) in water stored in freezer
Na <sub>2</sub> HPO <sub>4</sub>	Sigma-Aldrich	S9390	
NaH <sub>2</sub> PO <sub>4</sub>	Sigma-Aldrich	S9638	
KCl	Mallinckrodt Baker Inc.	6858-06	
MgSO <sub>4</sub> ·7H <sub>2</sub> O	Sigma-Aldrich	63138	
Sodium dodecylsulfate (SDS)	Sigma-Aldrich	L6026	
2-Nitrophenyl β-D-galactopyranoside (ONPG)	Sigma-Aldrich	73660	
Z-buffer			16.1 g Na <sub>2</sub> HPO <sub>4</sub> 5.5g NaH <sub>2</sub> PO <sub>4</sub> 0.75g KCl 0.246g MgSO <sub>4</sub> Make up to 1 l, pH 7.0
Z-buffer/chloroform			200 mL β-mercapt-ethanol, 2 mL chloroform, make up to 20 mL with Z-buffer. Vortex for 1 min, centrifuge for 1 min at 800 rpm. Make fresh for each plate.
Z-buffer/SDS			160 mg SDS dissolved in 10 mL Z-buffer
Z-buffer/ONPG			40 mg ONPG in 10 mL Z-buffer. Make fresh for each plate
β-mercapt-ethanol	Calbiochem	444203	
Anti-MBP monoclonal antibody (HRP conjugated)	New England Biolabs	E8038S	
Minimal media with maltose			1 x M9 salts, 0.4% maltose, 1 mg/ mL thiamin, 2 mM MgSO <sub>4</sub>

96-well flat bottom plate	Sarstedt Ltd	83.1835.300	
Plate-reader	Beckman Coulter Inc.	DTX880 Multimode Detector	
Water bath	VWR international	89032-204	
Shaking incubator	Forma Scientific		