

# Certificate of Analysis

## Product Information

<b>Product Name:</b>	<b>RPL-Gal4</b>	<b>Product Code: L-005-2MG</b>
• <b>Lot Number:</b>	Lot 1	
• <b>Pack Size:</b>	2 mg Supplied in PBS (pH7.2) at 2 mg.mL <sup>-1</sup>	
• <b>Storage</b>	Long Term Storage at -80°C Short Term Storage at -20°C	
• <b>Description:</b>	<b>Hexa-His Tagged RPL-Gal4</b>	
– <b>Produced:</b>	Recombinantly Expressed in <i>Escherichia coli</i> .	
– <b>Purified:</b>	Purified by Immobilized Metal Affinity Chromatography (IMAC).	
– <b>Source:</b>	<i>Photorhabdus asymbiotica</i> .	
– <b>Molecular Weight:</b>	Monomer MW: 14,595 Da. Exists as dimer under physiological conditions (PBS, pH7.2).	

## Quality Control Analysis

- **Specificity:** Terminal  $\beta$ -linked Galactose, N-Acetyllactosamine (LacNAc) & Lewis x (Le<sup>x</sup>) as assessed by Enzyme Linked Lectin Assay (ELLA).
- **Purity Analysis:** Highly purified (>98%). Homogeneous as determined by:
  - SDS PAGE analysis using Coomassie Blue detection.
  - Gel Permeation Chromatography (GPC).
- **Percentage Activity:** >98% as assessed by affinity chromatography.

## Usage Guidelines

- Typically utilized in ELLA prepared by dilution in Tris Buffered Saline (pH7.6).
- RPL activity requires metal ions. Buffers must therefore be supplemented with 1mM CaCl<sub>2</sub>, MgCl<sub>2</sub> and MnCl<sub>2</sub>.
- RPL typically diluted to working concentration of  $\leq 5 \mu\text{g.mL}^{-1}$  with TBS and incubated for a minimum of 30 minutes prior to use to allow metal complexation.

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