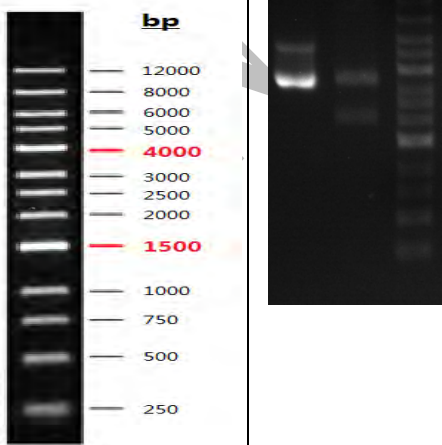


<b>CERTIFICATE OF ANALYSIS</b>			
<b>Gene Name</b>	pMAL-c5X (Cat.#V012449)	<b>Order No.</b>	G0225739-1
<b>Lot No.</b>	D19561	<b>Strain</b>	JM108
<b>Quantity</b>	100ug	<b>Quality grade</b>	Research Grade
<b>QC Results</b>			
<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>	
<b>Appearance</b>	Clear, no visible particles	Pass	
<b>Concentration</b>	On request, default	Pass	
<b>A260/280</b>	1.8 - 2.0	Pass	
<b>A260/230</b>	>2.0	Pass	
<b>Supercoiled content</b>	No request	N/A	
<b>Residual RNA</b>	Not visible upon electrophoresis	Pass	
<b>Genomic DNA</b>	Not visible upon electrophoresis	Pass	
<b>Restriction Analysis</b>	Conforms to reference	Pass	
<b>Bioburden assay</b>	No growth on agar plate after 24 hours	N/A	
<b>Endotoxin Test</b>	Verified, (Endo-Free Preps Only)	N/A	
<b>Label</b>	Correct and white	Pass	
<b>Sequencing</b>	Correct	Pass	
<b>Comments</b>	-	-	
<b>Restriction Digestion Map</b>			
	<b>1</b>	<b>2</b>	<b>M</b>
 <p><b>bp</b></p> <p>12000 8000 6000 5000 <b>4000</b> 3000 2500 2000 <b>1500</b> 1000 750 500 250</p>	<p><b>Lane1:</b> Plasmid DNA</p> <p><b>Lane2:</b> Plasmid digested by ApaI-HindIII</p> <p><b>Lane M:</b> DNA Marker</p>		

**Certified by: Chou Fang**

**Date: Mar/25/2022**