

# Fusion BioLabs X16 (Linear 16-amino acid peptide) Peptide Phage Display Library Information

SKU# PDL-03: Ready-to-Use X16 Linearized Peptide Phage Display Library Kit

Synthetic Format: Randomized 16-amino acid peptide with 6xHis Tag and HA Tag (OmpA leader sequence- **X16** peptide -6xHis tag-HA tag- Amber stop codon)

Diversity:  $8.6 \times 10^{10}$

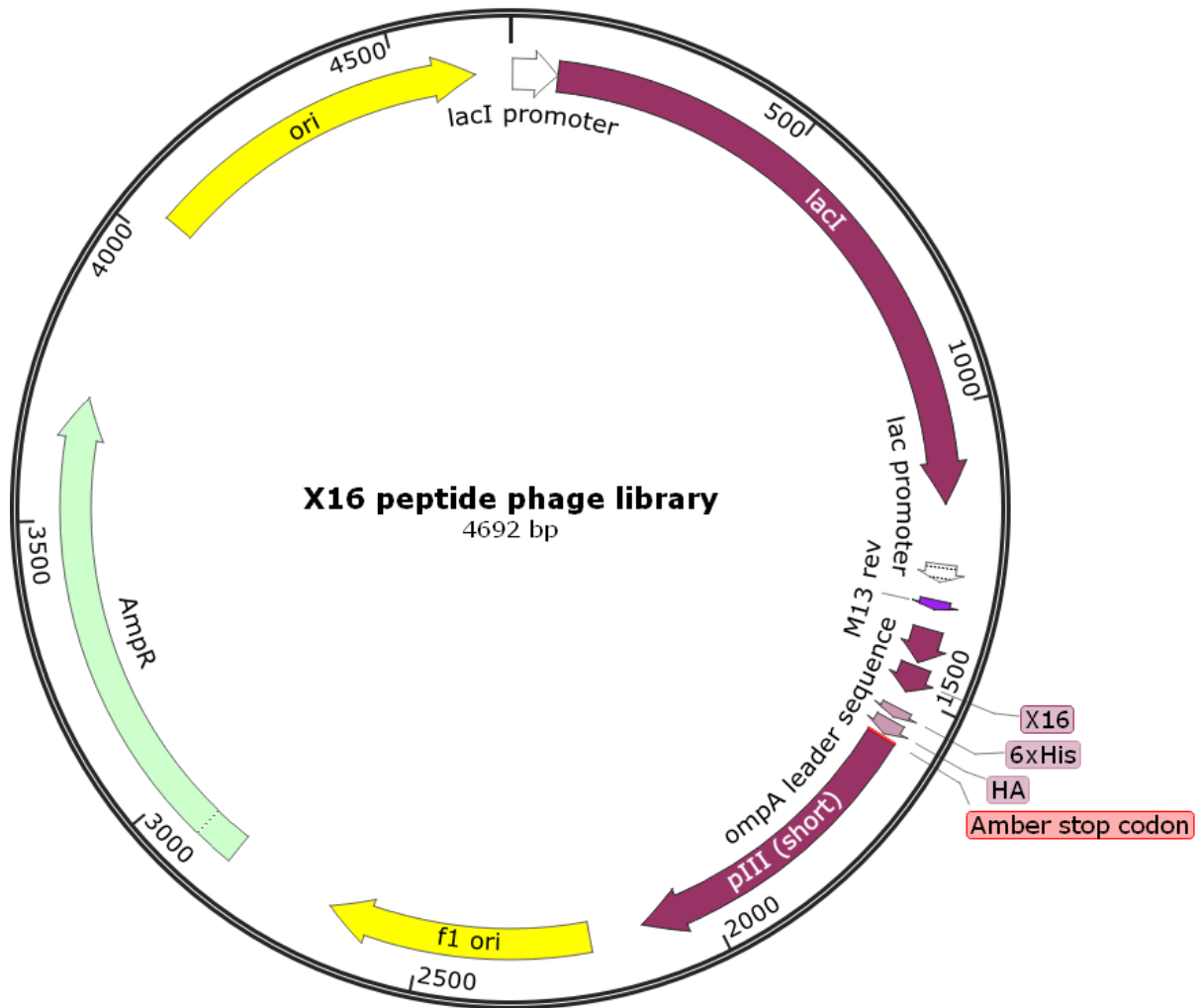
The diversity and in-frame of the library was checked by NGS.

**The X16 phagemid-based phage display Library is a linear randomized segment of 16-amino acid peptides.**

## Kit contents

The following components are included in the Kit.

Component	Quantity	Composition
X16 peptide phage display library (ready-to-panning; $8.6 \times 10^{12}$ pfu/ml)	1.0 ml	1×PBS with 50% glycerol
M13KO7 Helper Phage ( $2 \times 10^{12}$ pfu/ml)	0.5 ml	1×PBS with 50% glycerol
Chemically Competent TG1 E. coli	0.5 ml	2×YT with 25% Glycerol
M13 Reverse Primer (1.6 $\mu$ M)	0.2 ml	1×TE Buffer



### Comments for Fusion BioLabs Library Vector X16 Peptide Phage Display Library (one typical clone)

*lac I* promoter: bases 5-82  
*lac I* ORF: bases 83-1165  
 M13 Reverse priming site: bases 1331-1347  
 OmpA leader sequence: bases 1383-1445  
 X16 peptide: bases 1449-1496  
 Polyhistidine (6xHis) site: bases 1527-1544  
 HA Hemagglutinin A (HA) epitope: bases 1551-1577  
 Amber stop codon: bases 1581-1583  
 pIII engineered ORF: 1584-2117  
 f1 origin: bases 2210-2665  
 Ampicillin resistance ORF: bases 2852-3712  
 pUC origin: bases 4044-4632