

Fusion BioLabs C8C (Loop-Constrained Octapeptide) Peptide Phage Display Library Information

SKU# PDL-01: Ready-to-Use C8C Cyclized Peptide Phage Display Library Kit

Synthetic Format: Randomized octapeptide with 6xHis Tag and HA Tag (OmpA leader sequence-cysteine-octapeptide-cysteine-6xHis tag-HA tag-Amber Stop codon)

Diversity: 7.4×10^{10}

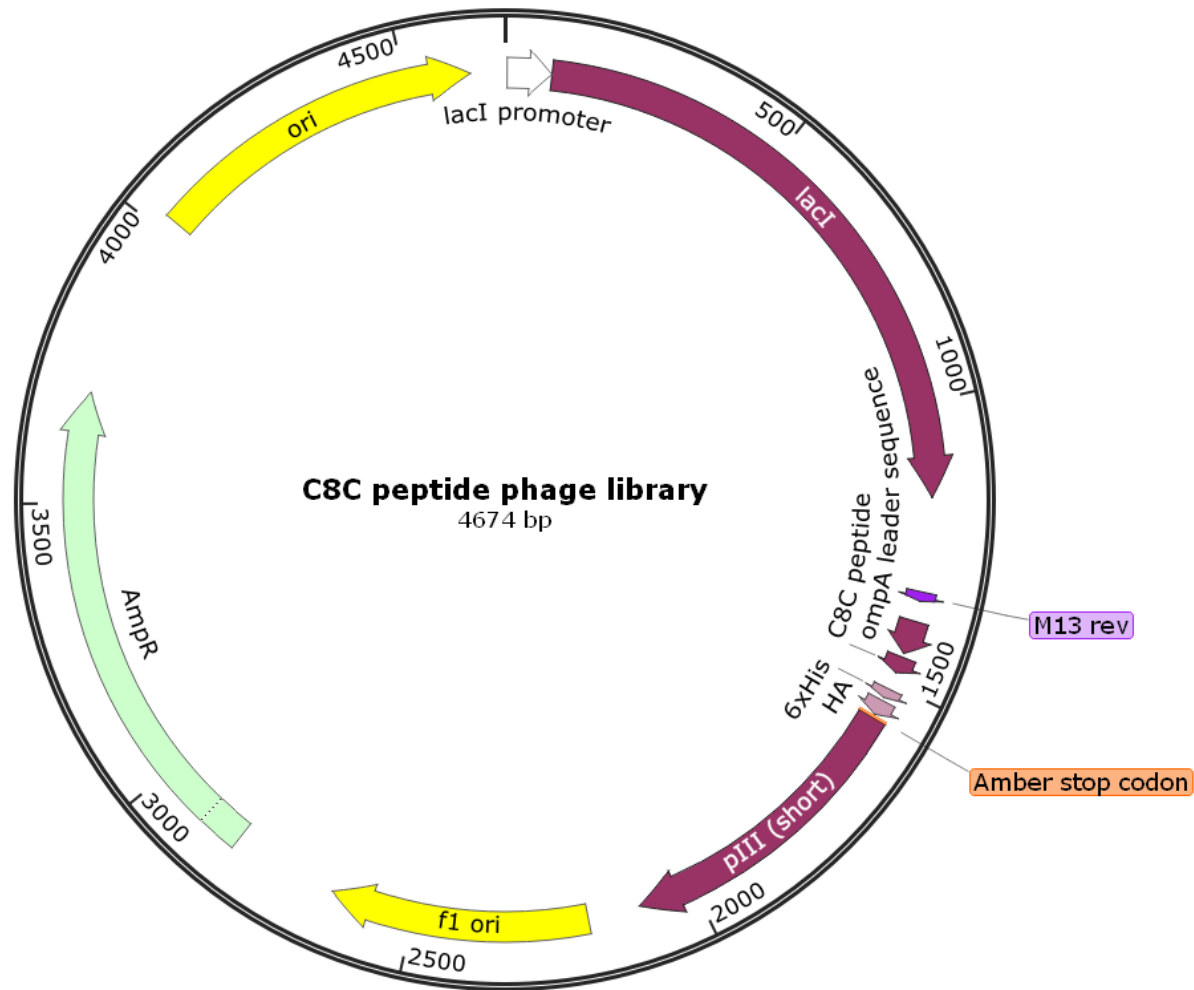
The diversity and in-frame of the library was checked by NGS.

The phagemid-based phage display Library has randomized segment of the C8C peptide, which is flanked by a pair of cysteine residues, which are oxidized during phage assembly to a disulfide linkage, resulting in the displayed peptides being presented to the target as loops.

Kit contents

The following components are included in the Kit.

Component	Quantity	Composition
C8C peptide phage display library (ready-to-panning; 7.4×10^{12} pfu/ml)	1.0 ml	1×PBS with 50% glycerol
M13KO7 Helper Phage (2×10^{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 μ M)	0.2 ml	1×TE Buffer



Comments for Fusion BioLabs Library Vector

C8C 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

C8C peptide: bases 1449-1478

Polyhistidine (6xHis) site: bases 1509-1526

HA Hemagglutinin A (HA) epitope: bases 1533-1559

Amber stop codon: bases 1563-1565

pIII engineered ORF: 1566-2099

f1 origin: bases 2192-2647

Ampicillin resistance ORF: bases 2834-3694

pUC origin: bases 4026-4614