
Fusion BioLabs Ready-to-Use Human Synthetic Fab Phage Display Library Information

SKU# ADL-03: Ready-to-Use Human Synthetic Fab Phage Display Library Kit

Format: Fab with HA Tag and 6xHis Tag (OmpA leader sequence-Vk-Ck: pelB leader sequence-VH-CH1 (human IgG1)- HA tag and 6xHis tag)

Diversity: 8.0×10^{10}

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

The human synthetic Fab Library was constructed by saturation mutation of all 6 CDRs (3 HCDRs and 3 LCDRs) and their CDR combination.

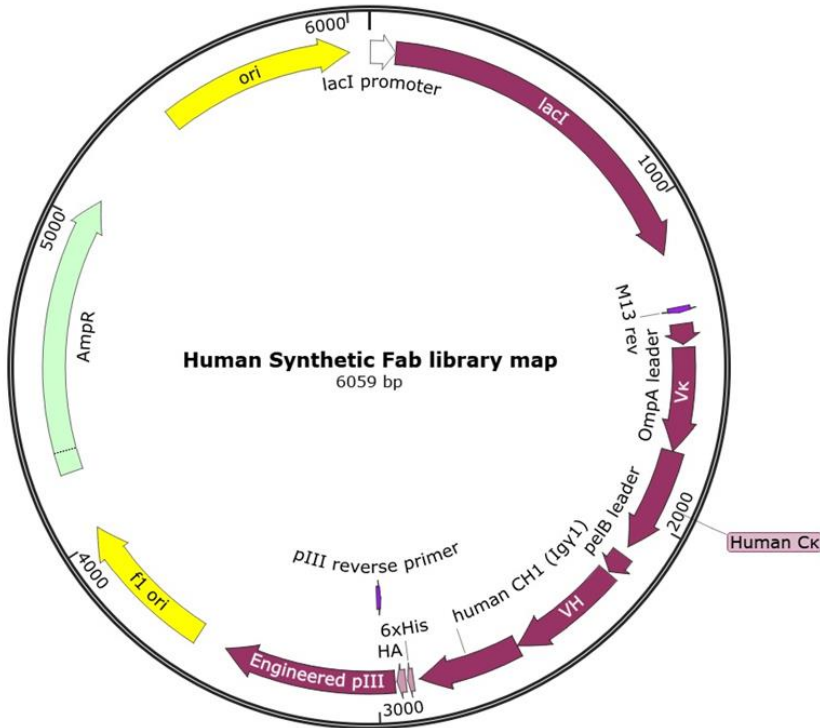
VH Gene Family: IGHV1

VL Gene Family: IGKV4

Kit contents

The following components are included in the Kit.

Component	Quantity	Composition
Human Synthetic Fab Library (ready-to-panning phage; 2.5×10^{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
pIII Reverse Primer (1.6 μ M)	0.2 ml	1×TE Buffer



Comments for Fusion BioLabs Vector

Human Synthetic Fab (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

pelB leader sequence: bases 2129-2194

Polyhistidine (6xHis) site: bases 2894-2911

HA Hemagglutinin A (HA) epitope: bases 2918-2944

Amber stop codon: bases 2948-2950

pIII engineered ORF: 2951-3484

pIII Reverse priming site: 2982-2998

f1 origin: bases 3577-4032

Ampicillin resistance ORF: bases 4219-5079

pUC origin: bases 5411-5999