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

SKU# ADL-02: Ready-to-Use Human Naïve Fab Phage Display Library Kit

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

Diversity: 6.8×10^{10}

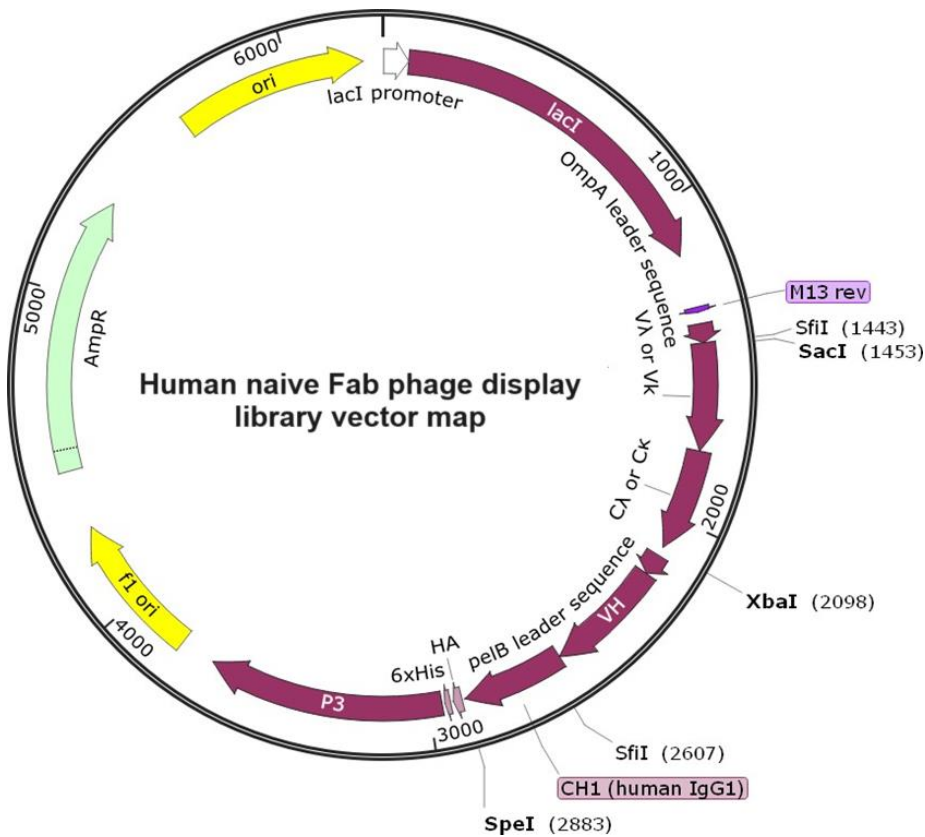
The diversity and in-frame of the library was checked by NGS.

The human Naïve Fab Library was constructed from different ethnic groups (Asia, African American, Caucasian, Filipino, Hispanic, and each groups has at least 50 donors aged from 25 to 74 with equally distributed male and female.

Kit contents

The following components are included in the Kit.

Component	Quantity	Composition
Human Naïve Fab Library (ready-to-panning phage; 3.2×10^{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 Naïve 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 2127-2192
- HA Hemagglutinin A (HA) epitope: bases 2898-2924
- Polyhistidine (6xHis) site: bases 2934-2951
- Amber stop codon: bases 2958-2960
- pIII engineered ORF: 2961-3695
- pIII Reverse priming site: 2992-3008
- f1 origin: bases 3808-4263
- Ampicillin resistance ORF: bases 4450-5310
- pUC origin: bases 5642-6230