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

**SKU# ADL-01:** Ready-to-Use Human Naïve scFv Phage Display Library Kit

Format: scFv with 6xHis Tag and HA Tag (OmpA leader sequence-Vk-Linker-VH-6xHis tag-HA tag)

Diversity:  $9.0 \times 10^{10}$

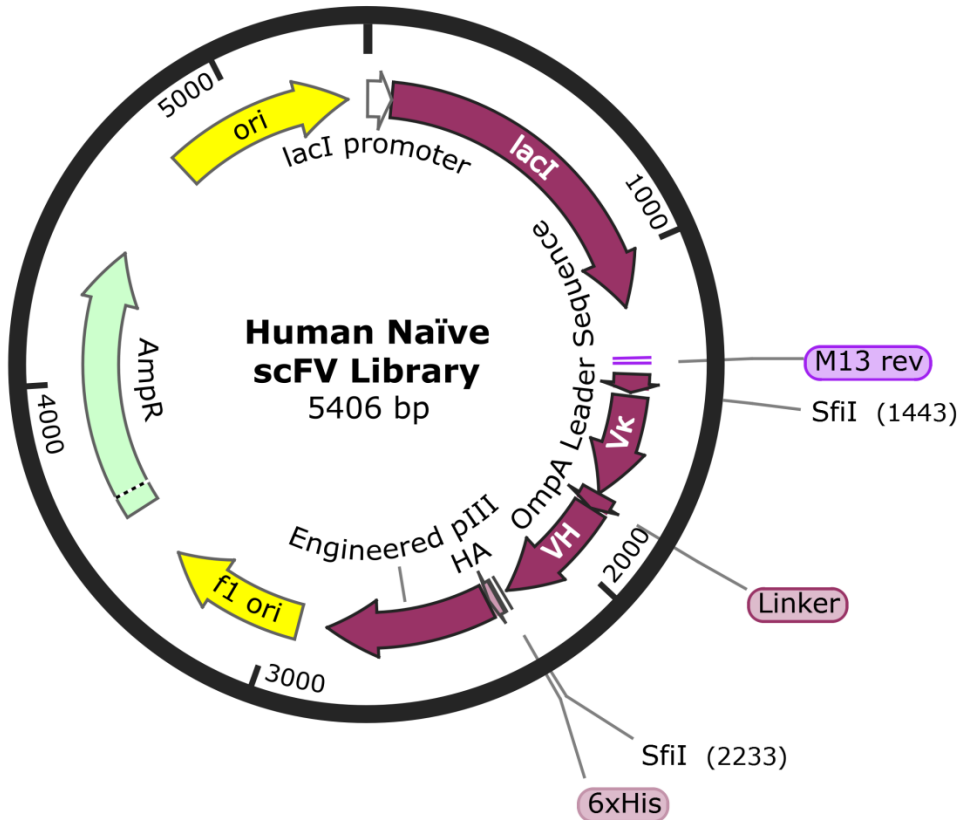
The diversity and in-frame of the library was checked by NGS.

**The human Naïve scFv 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 scFv Library (ready-to-panning phage; $9.0 \times 10^{12}$ 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	2xYT with 25% Glycerol
M13 Reverse Primer (1.6 $\mu$ M)	0.2 ml	1×TE Buffer
pIII Reverse Primer (1.6 $\mu$ M)	0.2 ml	1×TE Buffer



## Comments for Fusion BioLabs Vector

### Human Naïve scFv (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  
Polyhistidine (6xHis) site: bases 2241-2258  
HA Hemagglutinin A (HA) epitope: bases 2265-2291  
Amber stop codon: bases 2295-2297  
pIII engineered ORF: 2298-2831  
pIII Reverse priming site: 2329-2345  
f1 origin: bases 2924-3379  
Ampicillin resistance ORF: bases 3566-4426  
pUC origin: bases 4758-5346