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

SKU# ADL-04: Ready-to-Use Human Synthetic scFv Phage Display Library Kit

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

Diversity: 8.9×10^{10}

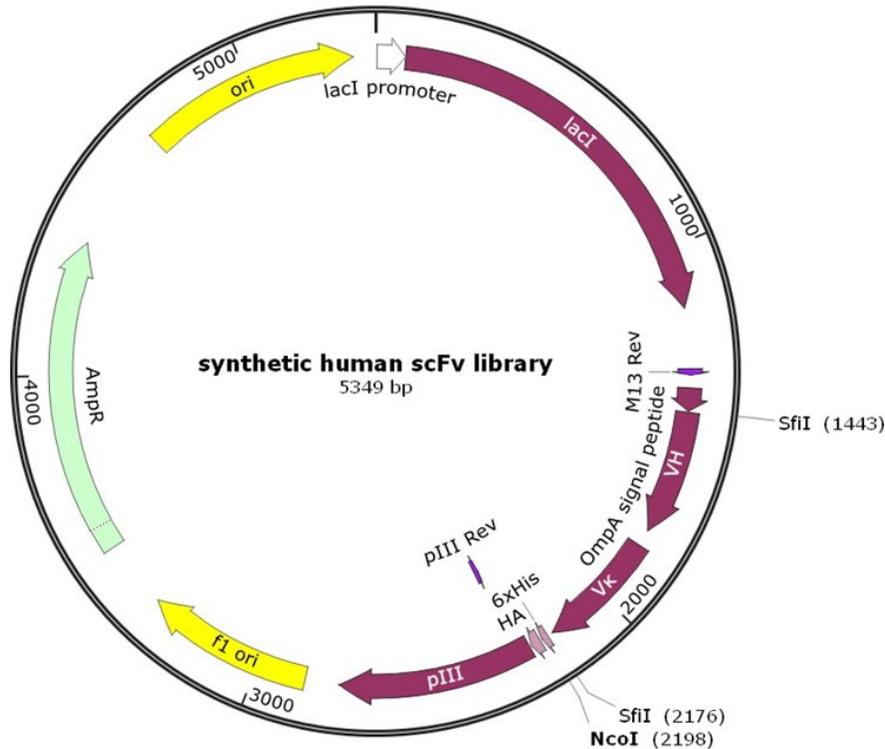
The diversity and in-frame of the library was checked by NGS.

The main library of the human synthetic scFv library was constructed by saturation mutagenesis of all 6 CDRs (3 HCDRs and 3 LCDRs) and their CDR combination with 6 frameworks (6 sub-libraries).

Kit contents

The following components are included in the Kit.

Component	Quantity	Composition
Human Synthetic scFv Library (ready-to-panning phage; 4.5×10^{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 μM)	0.2 ml	1×TE Buffer
pIII Reverse Primer (1.6 μM)	0.2 ml	1×TE Buffer



Comments for Fusion BioLabs Vector

Human Synthetic 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 2184-2201
HA Hemagglutinin A (HA) epitope: bases 2208-2234
Amber stop codon: bases 2238-2240
pIII engineered ORF: 2241-2774
pIII Reverse priming site: 2272-2288
f1 origin: bases 2867-3322
Ampicillin resistance ORF: bases 3509-4369
pUC origin: bases 4701-5289