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

**SKU# ADL-07:** Ready-to-Use Mouse Synthetic scFv Phage Display Library Kit

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

Diversity:  $6.8 \times 10^{10}$

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

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

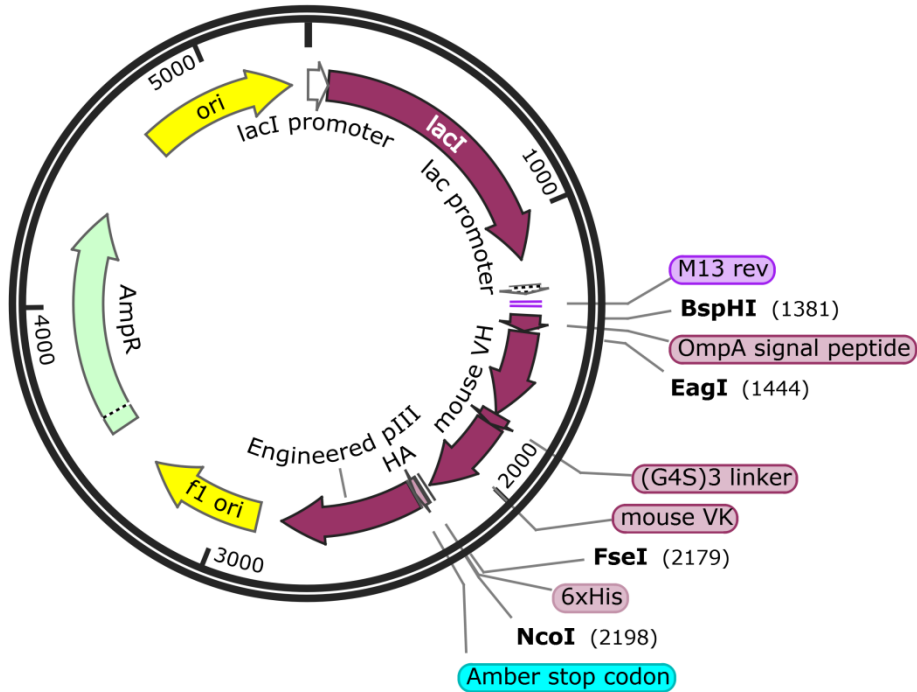
VH Gene Family: IGHV3

VL Gene Family: IGKV1

## Kit contents

The following components are included in the Kit.

Component	Quantity	Composition
Mouse Synthetic scFv Library (ready-to-panning phage; $6.8 \times 10^{12}$ 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	2×YT 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



### Mouse Synthetic scFv Phage Display Library

5349 bp

### Comments for Fusion BioLabs Vector

### Mouse 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