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

**SKU# ADL-05:** Ready-to-Use Mouse 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:  $1.8 \times 10^{10}$

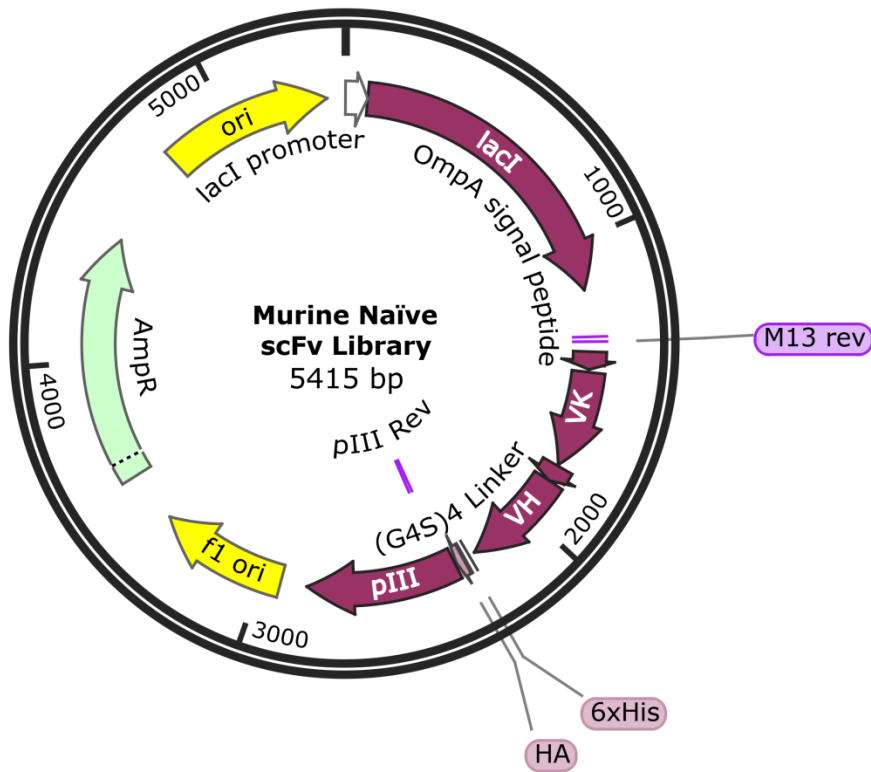
The diversity and in-frame of the library was checked by NGS.

**The mouse Naïve scFv Library was constructed from 6 spleens of BALB/c female mice (6-8 weeks old).**

## Kit contents

The following components are included in the Kit.

Component	Quantity	Composition
Mouse Naïve scFv Library (ready-to-panning phage; $1.8 \times 10^{12}$ 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



## Comments for Fusion BioLabs Vector

### Mouse 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 2250-2267

HA Hemagglutinin A (HA) epitope: bases 2274-2300

Amber stop codon: bases 2304-2306

pIII engineered ORF: 2307-2840

pIII Reverse priming site: 2338-2354 f1 origin: bases 2933-3388

Ampicillin resistance ORF: bases 3575-4435

pUC origin: bases 4767-5355