

Cycles	mAb 1F4 (mg/L)	Washing (%TBST)	Input (pfu)	Output(pfu)	Yield
1	100	0.1	$1.0 \times 10^{11}$	$2.5 \times 10^4$	$2.5 \times 10^{-7}$
2	50	0.3	$1.0 \times 10^{11}$	$6.8 \times 10^8$	$6.8 \times 10^{-3}$
3	30	0.5	$1.0 \times 10^{11}$	$7.3 \times 10^9$	$7.3 \times 10^{-2}$

**S1 Table. Enrichment of positive phage clones by biopanning the PhD-12 library.**