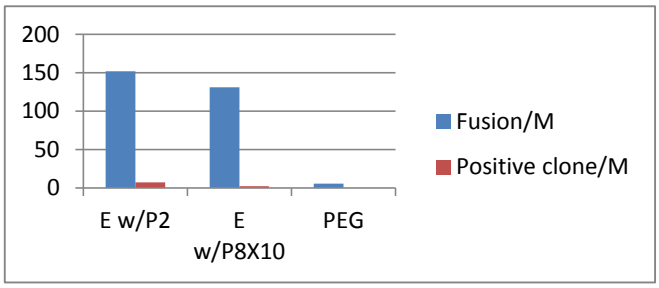
Comparison of cell-fusion results between the ECFG21 and PEG

A small molecule antigen or a peptide antigen

Conclusion: The efficiency by the ECFG21 is 25-100 times higher than PEG.

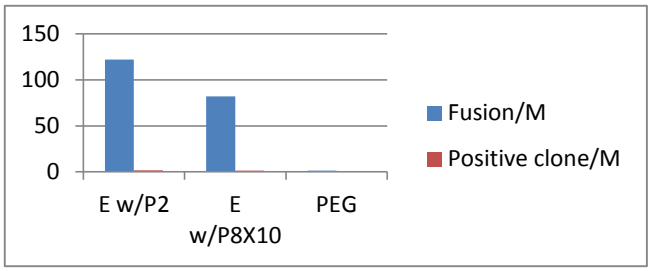
1) Antigen used: 20 kDa immunosuppressive protein with high homology

Fusion	Fusion/M	Positive clone/M
E w/P2	152	7.6
E w/P8X10	131	2.6
PEG	5.6	0



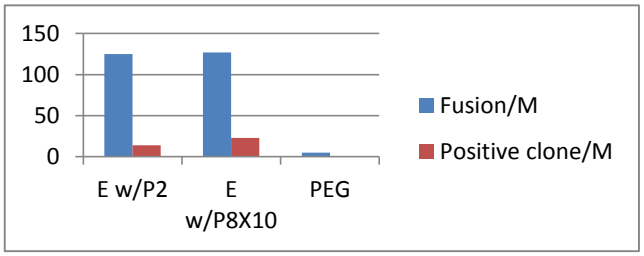
2) Antigen used: Hydrophobic octapeptide

Fusion	Fusion/M	Positive clone/M
E w/P2	122	1.7
E w/P8X10	82	1.2
PEG	1.1	0.02



3) Antigen used: Highly hydrophobic 17 amino acid peptide.

Fusion	Fusion/M	Positive clone/M
E w/P2	125	13.8
E w/P8X10	127	22.9
PEG	5	0.3



Fusion/M: Number of hybridomas generated per 1 x 10^6 lymphocytes

Positive clone/M: Number of clones producing monoclonal antibodies against the antigen per 1 x 10^6 lymphocytes

E w/P2: ECFG21 electrofusion performed using CUY497P2 electrode (up to 0.8 ml)

E w/P8X10: ECFG21 electrofusion performed using CUY497P8X10 electrode (up to 6.4 ml)

Data provided courtesy of Jun Hayashi, Ph.D., VP of Precision Antibody
http://precisionantibody.com/