

Materials List for:

# In Vitro Directed Evolution of a Restriction Endonuclease with More Stringent Specificity

Krzysztof J. Skowronek<sup>1</sup>, Matthias Bochtler<sup>1</sup>

<sup>1</sup>International Institute of Molecular and Cell Biology, Trojdena

Correspondence to: Krzysztof J. Skowronek at [kskowronek@iimcb.gov.pl](mailto:kskowronek@iimcb.gov.pl), Matthias Bochtler at [mbochtler@iimcb.gov.pl](mailto:mbochtler@iimcb.gov.pl)

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## Materials

Name	Company	Catalog Number	Comments
1000Å CPG Support (dA, dT, dC, dG)	Biosset	45-1000-050	Other vendors can be used as well
ASM-800 DNA/RNA	Biosset	800-001-000	
GeneJET Gel Extraction Kit	Thermo Scientific	K0691	Any other kit can be used
Glen-Pak DNA purification cartridge	Glen Research	60-5200	
HIS-Select Nickel Affinity Gel	Sigma	P6611	
pET 28a vector			Any other vector with T7 promoter upstream of pycloining site can be used instead
Phusion High-Fidelity DNA Polymerase	Thermo Scientific	F530S	Any other high fidelity and highly processive thermophilic polymearse can be used instead
Porous steel foil	Biosset	40-063	
Rapid Translation System RTS 100, E.coli HY Kit	Roche	3 186 148	
Restriction endonucleases	Thermo Scientific		Obviously other vendors, enzymes can be used
Streptavidin Magnetic Beads	New England Biolabs	S1420S	Other vendors can be used as well. We have positively tested beds form Sigma
Synthesis chemicals including phosphoramidities	Carl Roth		Other vendors can be used as well
Synthesis columns (different sizes)	Biosset		
T4 DNA ligase	Thermo Scientific	EL0011	Any other ligase can be used