DOMUS
BIOTECHNOLOGIES

PRODUCT INFORMATION

Cat-Mu Transposon (CamR)

Cat. No. D020101 / D020102
Format: 3 µl / 10 µl
Concentration: 1.1 pmol / µl / 0.5 pmol / µl

Description
Cat-Mu Transposon (CamR) (1), contains marker gene *cat*, which confers resistance to chloramphenicol. Can be used for *in vitro* and *in vivo* transposon mutagenesis.

Storage conditions
Store at -20°C.

Storage buffer
TEN (10 mM Tris pH 7.5, 0.5 mM EDTA, 50 mM NaCl)

Cat-Mu Transposon (CamR) was tested using *in vitro* assembly of Mu transpososomes and electroporation of Mu transpososomes into *E. coli*. Reactions (20 µl) contained 1.1 pmol Cat-Mu Transposon DNA, and 4.9 pmol (0.4 µg) MuA Transposase (Cat. No. D010101) in 1X reaction buffer (150mM Tris pH 6, 0.025% Triton™ X-100, 150 mM NaCl, 0.1mM EDTA, 50% glycerol). Reactions were carried out for 2 hours at 30°C. To reduce the salt concentration transpososome preparations were diluted 1:8 with water before electroporation. An aliquot (1 µl) was electrotransformed into *E. coli* electrocompetent cells (25 µl) (transformation efficiency > 10^{10} cfu/µg pUC19). Dilutions of the transformation mixture were plated onto LB plates containing Cm (10 µg/ml) to score integration products. As a result, more than 6 x 10^4 colonies were recovered per single transposition reaction. Control reactions were incubated without added MuA Transposase. No colonies were detected on selection plates after electroporation into *E. coli*.

Citation

Please cite the product in the following manner:

Cat-Mu Transposon (CamR) (Domus Biotechnologies)

Pulkkinen E, Haapa-Paananen S, Turakainen H, Savilahti H (2016) A set of mini-Mu transposons for versatile cloning of circular DNA and novel dual-transposon strategy for increased efficiency. Plasmid 86:46-53

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.
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