

Materials List for:

# CAPRESI: Chimera Assembly by Plasmid Recovery and Restriction Enzyme Site Insertion

Orlando Santillán<sup>1</sup>, Miguel A. Ramírez-Romero<sup>2</sup>, Guillermo Dávila<sup>3</sup>

<sup>1</sup>Centro de Ciencias Genómicas, Universidad Nacional Autónoma de México

<sup>2</sup>Oncomedic Incorporation, Ciudad de México

<sup>3</sup>Laboratorio Internacional de Investigación sobre el Genoma Humano, Universidad Nacional Autónoma de México

Correspondence to: Orlando Santillán at [osantillan@cg.unam.mx](mailto:osantillan@cg.unam.mx)

URL: <https://www.jove.com/video/55526>

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## Materials

Name	Company	Catalog Number	Comments
Platinum Taq DNA polymerase High Fidelity	Thermo Fisher	11304011	Produces a mix of blunt/3'-A overhang ended PCR products
High pure plasmid isolation kit	Roche	11754785001	Used for all plasmid purification reactions
High pure PCR product purification kit	Roche	11732676001	Used for all PCR purification reactions from agarose gels
AflII restriction enzyme	New England Biolabs	R0520L	Recognizes sequence 5'-CTTAAG-3' and cuts at 37 °C
KpnI-HF restriction enzyme	New England Biolabs	R3142L	Recognizes sequence 5'-GGTACC-3' and cuts at 37 °C
SpeI-HF restriction enzyme	New England Biolabs	R3133L	Recognizes sequence 5'-ACTAGT-3' and cuts at 37 °C
XbaI restriction enzyme	New England Biolabs	R0145L	Recognizes sequence 5'-TCTAGA-3' and cuts at 37 °C
Ampicillin sodium salt	Sigma Aldrich	A0166-5G	Antibiotics
Nalidixic acid	Sigma Aldrich	N8878-5G	Antibiotics
Yeast Extract	Sigma Aldrich	Y1625-1KG	Bacterial cell culture
Casein peptone	Sigma Aldrich	70171-500G	Bacterial cell culture
NaCl	Sigma Aldrich	S9888-1KG	Sodium chloride
Agar	Sigma Aldrich	05040-1KG	Bacterial cell culture
XbaI restriction enzyme	Thermo Fisher	FD0684	Fast digest XbaI enzyme
KpnI restriction enzyme	Thermo Fisher	FD0524	Fast digest KpnI enzyme
Quick Ligation Kit	New England Biolabs	M2200S	Fast DNA ligation kit
AflII restriction enzyme	Thermo Fisher	FD0834	Fast digest AflII enzyme
SpeI restriction enzyme	Thermo Fisher	FD1253	Fast digest SpeI enzyme