PLASMID DATA SHEET

NAME OF PLASMID:
1. HeLa full-length MLCK-GFP   (MLCK-1)
2. Hela kinase-dead MLCK-GFP

CREATED BY:
Natalia Dulyaninova
3-03-03

DERIVATION OF PLASMID

VECTOR: pEGFP-C2 (Clontech, cat.# 6083-1), 4.7 kb

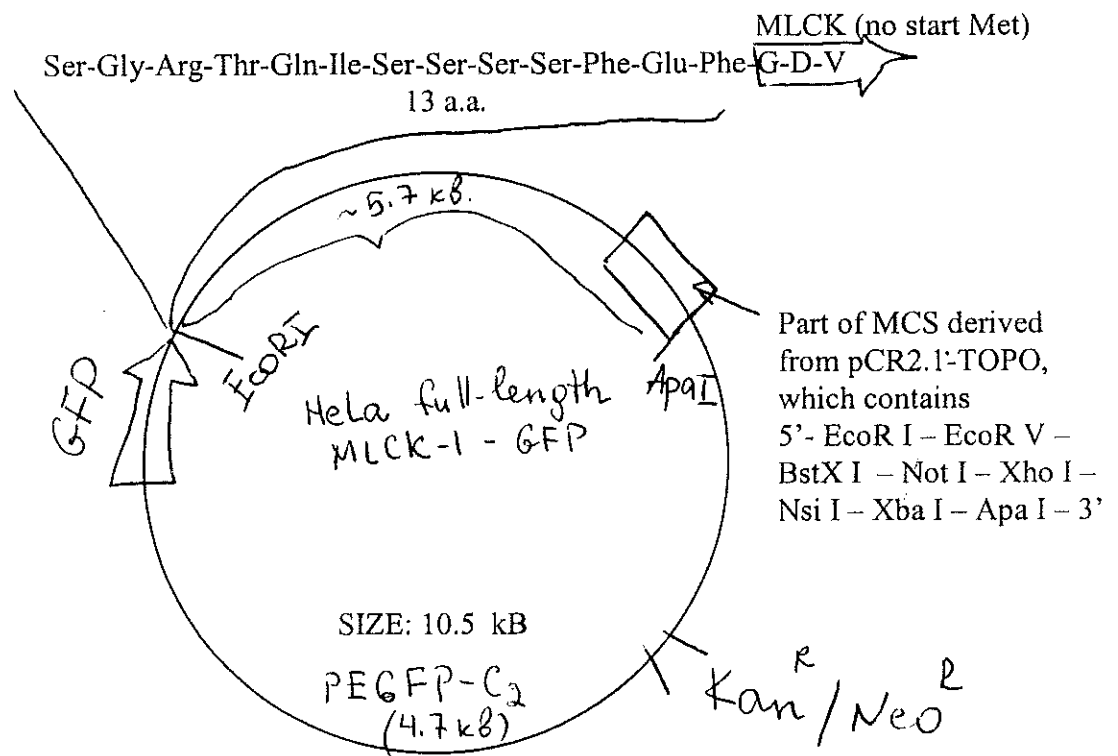INSERT was subcloned into the *EcoRI/ApaI* sites:
1. HeLa full-length long MLCK (nucleotides 4-5745);
2. To create kinase-dead MLCK (nucleotides 4-5745), E1626 (nucleotides 4878-4880) was substituted with K. Sequence was confirmed only with 4336 Sense primer.

SELECTABLE GENES/REPLICATION ORIGINS/PROMOTER
E. coli: Kan
Mammalian: Neo

MLCK (no start Met)

Ser-Gly-Arg-Thr-Gln-Ile-Ser-Ser-Ser-Ser-Phe-Glu-Phe-G-D-V

13 a.a.

MAP

~5.7 kb

GFP

EcoRI

Hela full-length MLCK-1 - GFP

ApaI

Part of MCS derived from pCR2.1-TOPO, which contains
5'- EcoR I – EcoR V – BstX I – Not I – Xho I – Nsi I – Xba I – Apa I – 3'

SIZE: 10.5 kB

pEGFP-C2
(4.7 kb)

Kan^R/Neo^R

STORAGE/LOCATION: -20°C