

# pUC-LUMICKS

The pUC-LUMICKS plasmid is a high-copy plasmid containing the pMB1 origin for replication in *E. coli*. The multicloning site (MCS) is in frame with the LacZalpha gene, allowing white-blue screening for insertion of the sequence of interest (SOI) by alpha complementation.

The map shows the enzymes with unique restriction sites in the MCS, which are highlighted in bold and can be used for the insertion of the SOI. The TypeIII enzymes Bsal, BbsI, and BsmBI are highlighted in blue and can be used to cut the SOI and generate overhangs compatible for ligation with 6 kb handles.

