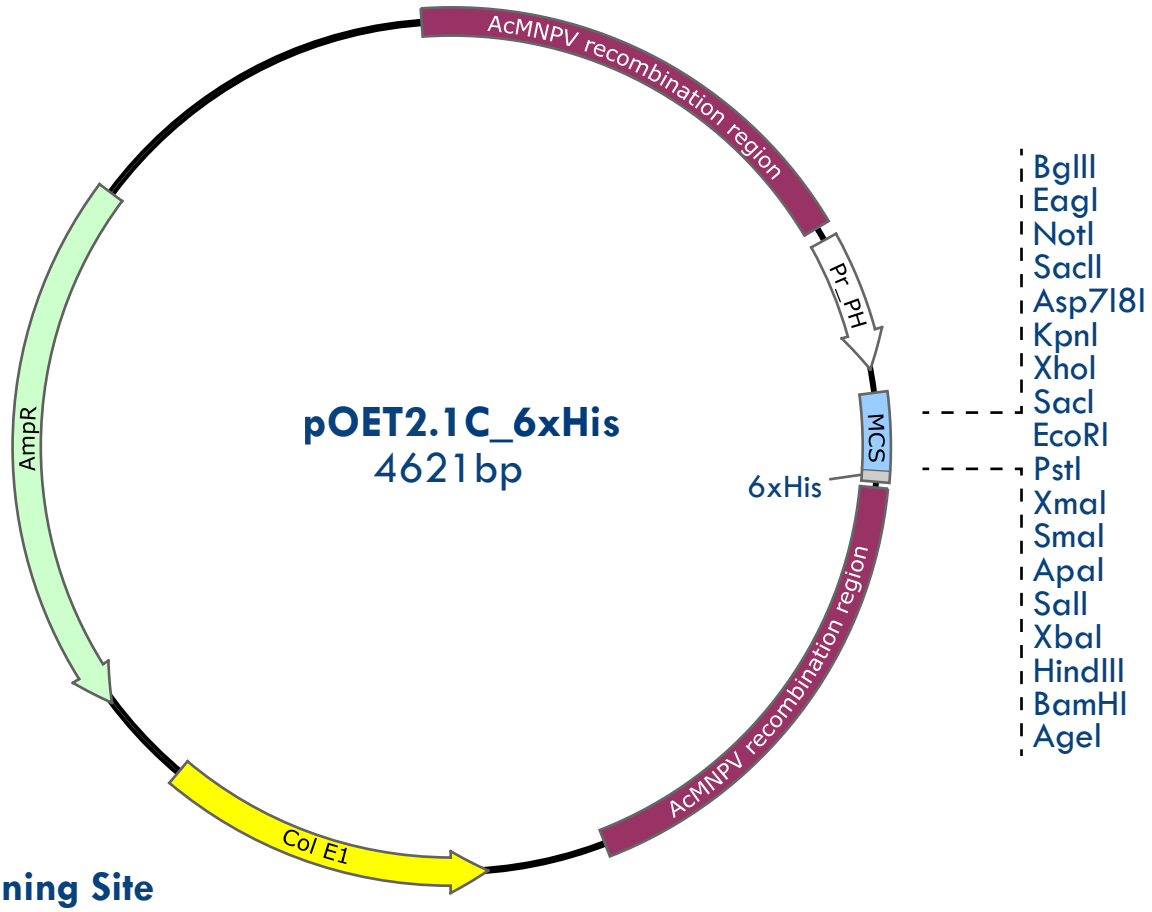
QUICK START GUIDE to pOET2.1C_6xHis

Catalogue Number	2001032
Storage	Tightly capped at -20°C
Product Guarantee	1Year from the date of purchase, when properly stored and handled

pOET2.1C 6xHis is a baculovirus transfer vector designed for high level expression of foreign genes under the powerful AcMNPV polyhedrin (polh) promoter (Pr_PH). The vector encodes an optional C-terminal 6xHis-Tag® fusion sequence that may be utilized. This greatly eases the purification of the recombinant protein since the 6xHis-containing fusion proteins bind with high affinity to Ni-NTA Agarose. pOET2.1C 6xHis is smaller than other available transfer vectors (4621 bp) which greatly facilitates the cloning steps. pOET2.1C 6xHis has a Col E1 origin of replication and an ampicillin resistance gene for selection in E. coli. The polh sequences have been replaced by a multiple cloning site (MCS) containing unique restriction enzyme sites for insertion of the foreign gene in the correct orientation. The AcMNPV sequences flanking the gene in the transfer vector's MCS allow recombination with the viral DNA to insert the expression cassette into the polh locus. pOET2.1C 6xHis is compatible with any baculovirus system that utilizes homologous recombination in insect cells.



Multiple Cloning Site

BglII | EagI NotI | Asp718I SacII | KpnI | XhoI | SacI | EcoRI | PstI | XmaI SmaI | ApaI | SalI | XbaI | HindIII | BamHI

AGATCTGCGGCCGCGGTACCTCGAGAGCTCGAATTCTGCAGCCCGGGGCCCGTCGACTCTAGAAGCTTGGATCC

AgeI

TCTGGTTCCGCGTGGATCAACCGGTCACCATCATCACCACCAT

thrombin | 6xHis

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