

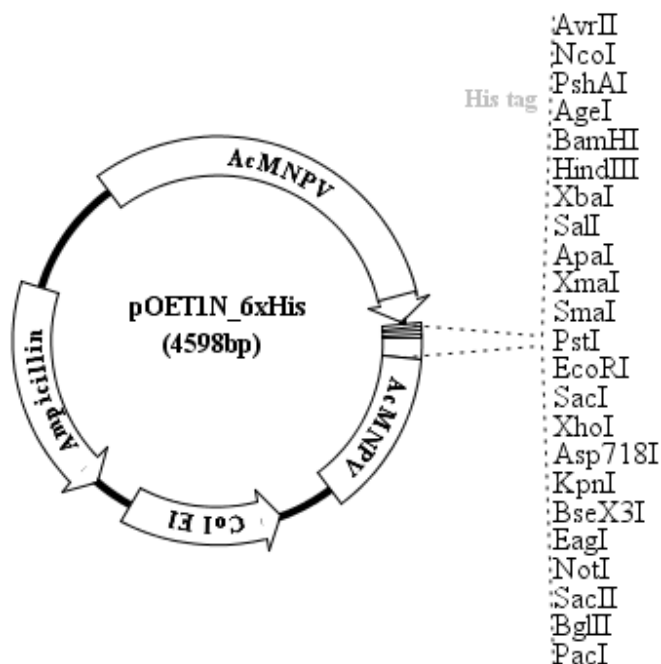
pOET1N_6xHis™ Transfer Vector

Product Information

Cat. No.	: 2001011
Quantity	: 10 µg
Storage	: -20°C
Shipping	: Room Temperature

pOET1N_6xHis is a baculovirus transfer vector designed for high level expression of foreign genes under the powerful AcMNPV polyhedron (*polh*) promoter. The vector encodes an optional N-terminal 6xHis-Tag® fusion sequence that may be utilized if the insert allows read-through in the correct reading frame. This greatly eases the purification of the recombinant protein since the 6xHis-containing fusion proteins bind with high affinity to Ni-NTA Agarose. If required, the 6xHis-Tag® can be removed by incubating the fusion protein in the presence of the proteinase cleavage enzyme Thrombin. pOET1N_6xHis is smaller than other available transfer vectors (4598 bp) which greatly facilitate the cloning steps. It 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 The *polh* sequences have been replaced by a multiple cloning site (MCS) containing unique restriction sites for insertion of the foreign gene in the correct orientation, as shown on the circular map. The coding strand of the MCS as transcribed from the *polh* promoter is shown below the circular map. The *PacI* site at the end of the MCS provides translational stop codons in all three reading frames for expression of truncated proteins. The AcMNPV sequences flanking the gene in the transfer vectors MCS allow recombination with the viral DNA to insert the expression cassette into the *polh* locus. pOET1N_6xHis is compatible with any baculovirus system that utilizes homologous recombination in insect cells.

AcMNPV 336-1782
 Pr_{PH} 1770-1870
 MCS 1880-2013
 His tag 1895-1913
 Thrombin 1919-1932
 AcMNPV 2014-2630
 Col E1 2836-3455
 Ampicillin 3610-4470



Polyhedrin promoter region →

AvrII NcoI PshAI His Tag

AGTTTTGTAATAAAAAACCTATAAATATAGGATCTCCTAGGACC**ATGGTCCATCATCACCA**

AgeI Thrombin BamHI HindIII XbaI SalI ApaI XmaI SmaI

CCATCACACCGGTCTGGTTCCGCGTGGATCCAAGCTTCTAGAGTCGACGGGCCCCCGGGCTG

BseX3I
 SacII
 Asp718I
 EagI

PstI EcoRI SacI XhoI KpnI NotI BglII PacI

CAGAATTCGAGCTCTCGAGGTACCGCGGCCGCAGATCTTAATTAA