



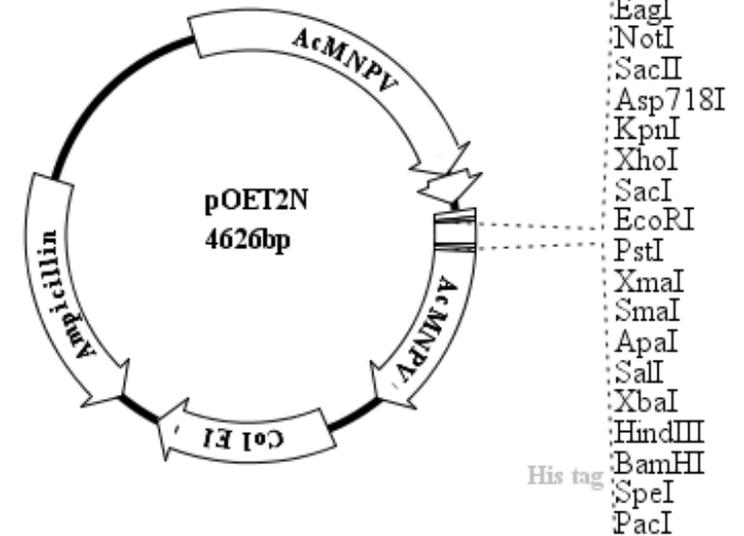
QUICK START GUIDE to pOET2N/C_6xHis

Catalogue Number	2001031
Storage	Tightly capped at -20°C
Product Guarantee	1 year from the date of purchase, when properly stored and handled

pOET2N/C is a baculovirus transfer vector designed for high level expression of foreign genes under the powerful AcMNPV polyhedron (*polh*) promoter. The vector encodes an N-terminal 6xHis-Tag[®] fusion sequence that may be utilized if the insert includes a stop codon. 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. There is also a 6xHis-Tag[®] for C-terminal fusions where the insert's own start codon can be used to replace the start codon supplied in pOET2N/C.

pOET2N/C is smaller than other available transfer vectors (4626 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 The *polh* sequences have been replaced by a multiple cloning site (MCS) containing unique restriction sites for insertion of the foreign gene in the correct orientation, as shown on the circular map.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 *PacI* site at the 3' 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 vector's MCS allow recombination with the viral DNA to insert the expression cassette into the *polh* locus. pOET2N/C is compatible with any baculovirus system that utilizes homologous recombination in insect cells.

AcMNPV 623-1769
 Pr_{PH} 1770-1870
 His tag 1895-1915
 Thrombin 1919-1932
 MCS 1931-2041
 His tag 2012-2030
 AcMNPV 2042-2658
 Col E1 2864-3483
 Ampicillin 3638-4498



Keep up to date with our online tips on our OETips webpages and our OETips blog (www.oetltd.wordpress.com).

Experiencing any troubles? Please feel free to contact our staff at info@oetltd.com and we would be happy to help however we can.



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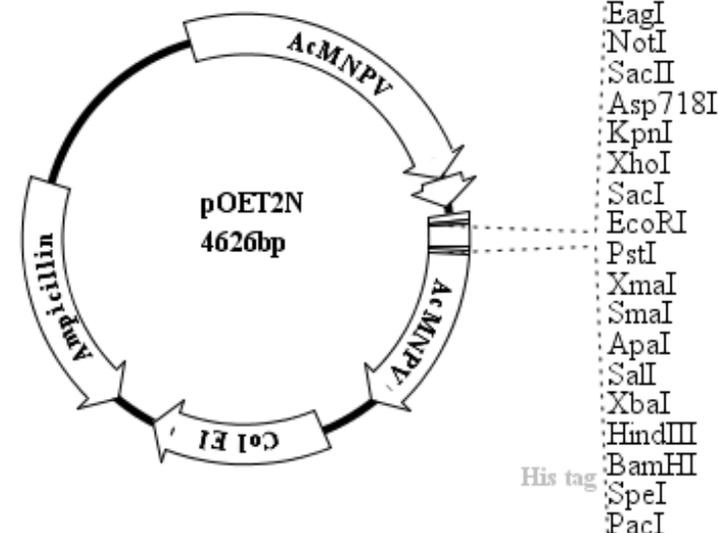
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