

pAB- LIC C

Source	Constructed by Alma Seitova, Toronto, SGC
Description	<p>The pAB-LIC C is a plasmid transfer vector, derivative of the pAB-bee™ vector (AB vector) for use in Baculovirus Expression System in insect cells for secreted protein expression. This vector adds one or two N-terminal (A) amino acid after releasing signal peptide by signalase.</p> <p>This vector is compatible with linearized baculovirus DNA from several other suppliers, e.g. BacMagic™, BacMagic™-2, BacMagic™-3, BacVector™-1000, BacVector™-2000, BacVector™-3000 (Novagen); BaculoGold™, BaculoGold™ bright (BD Pharmingen); flashBACGOLD™, flashBACULTRA™, flashBAC™ (OET); BacPAK6™ (Clontech); Sapphire™ (Orbigen).</p>
Antibiotic resistance	Ampicillin
Promoter	Polyhedrin Promoter
Cloning Method	Insertion of DNA sequence into the cloning/expression region is performed using BD-Biosciences Infusion enzyme mediated by directional recombination between complementary nucleotide DNA sequences at the ends of the insert (PCR product) and NotI/EcoRI linearized vector. Insertion of target sequence involves replacement of a SacB gene stuffer sequence, which provides for negative selection of the original plasmid on 5% sucrose.
Initiation Codon	ATG codon in Honeybee melittin signal sequence (HBMSS)
N – terminal HBMSS	MKFLVNVALVFMVVYISYIYAAA
C-Termination codons	E F V E H H H H H H H TAA included in vector after 8 His tag
5' primer addition for insert	5' TTCTTACATCTATGCGGCCGCT---3'
3' primer addition for insert	5' TGG TGG TGC TCG ACG AAT TC ---3'
sequencing primer - phF	5' AGACGCACAACTAATATCACAACTGGA 3'
sequencing primer- mR	5' CGTGTCCGGTTTAACATTACGGAT 3'