

**pFHMSPN-SBP-TEV-LIC  
(SGC 36-B6)**

Source	Constructed by Yanjun Li
Company	Structural Genomics Consortium, Toronto
Description	The pFHMSPN-SBP-TEV-LIC vector is a donor vector for use in the Bac-to-Bac Baculovirus Expression System for expressing proteins in insect cells, and it is derived from vectors pFHMSPN-LIC-N (Alma Seitova, SGC) and pET28-SBP-TEV-LIC (Yanjun Li, SGC). pFHMSPN-SBP-TEV-LIC vector has a polyhedron promoter that drives the expression of proteins targeted for secretion with the addition of an N-terminal Honeybee melittin signal followed by His tag, SBP and TEV cleavage site.
Antibiotic resistance	Ampicillin (plasmid resistance in <i>E. coli</i> ) Gentamicin (bacmid resistance in DH10Bac <i>E. coli</i> )
Promoter	Polyhedrin Promoter
Cloning Method	Insertion of a DNA sequence into the cloning/expression region is performed using Clontech's In-fusion enzyme-mediated directional recombination between complementary 15 nucleotide DNA sequences at the ends of the insert (PCR product) and BseR I linearized vector. Insertion of a target sequence involves replacement of a SacB gene stuffer sequence, which provides for negative selection of the original plasmid on 5% sucrose.
N – terminal Honeybee melittin signal, 6x His tag, SBP and TEV	MKFLVNVALVFMVVYISYIYAAPEHHHHHHH- EFMDEKTTGWRGGHVVEGLAGELEQLRARL- EHHPQGQREPSSGR-ENLYFQG
Termination codons	TGATGA included in 3' PCR primer
5' primer for amplification of insert	5' TTGTATTTCCAGGGC --3'
3' primer for amplification of insert	5' CAAGCTTCGTCATCA---3'
5' sequencing primer pFHMSPN-Frd	5' CCGGATTATTCATACCGTCCCACCA 3'
3' sequencing primer pFHMSPN-Rev	5' CTGATTATGATCCTCTAGTACTTCT 3'

**Sequencing of pFHMSPN-SBP-TEV-LIC: (6958 bp)**

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