

**pFBOH-SBP-TEV-LIC Vector**  
(SGC 36-B5)

Source	Constructed by Yanjun Li
Company	Structural Genomics Consortium, Toronto
Description	The pFBOH-SBP-TEV-LIC vector is a derivative of pET28-SBP-TEV-LIC (Yanjun LI, SGC) and pFBOH-LIC vector (Peter Loppnau, SGC). It is a donor vector for generation of recombinant baculovirus by site-specific transposition in <i>E. coli</i> host. For use in Baculovirus expression system in insect cells. This vector adds N-terminal fusion tags containing a 6 x His tag, SBP tag and TEV cleavage site. Two stop codons are included in the vector at the C-terminal cloning site.
Antibiotic resistance	Ampicillin (plasmid resistance in <i>E. coli</i> ) Gentamicin (bacmid resistance in DH10Bac <i>E. coli</i> )
Promoter	Polyhedrin
Cloning Methods	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 BseRI 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 fusion sequence	MHHHHHHEFMDEKTTGWRGGHVVEGLAGELEQLR-ARLEHHPQGQREPSSGRENLYFQG
5' primer tail for amplification of insert	5' TTGTATTTCCAGGGC --- 3'
3' primer tail for amplification of insert	5' CAAGCTTCGTCATCA --- 3'
5' sequencing primer pFBOH-fwd	5' CCGGATTATTCATACCGTCCCACCA 3'
3' sequencing primer pFBOH-rev	5' CTGATTATGATCCTCTAGTACTTCT 3'

**pFBOH-SBP-TEV-LIC sequence (6886 bp):**

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