

pFB-Nflag-LIC Vector

Source	Constructed by Yanjun Li
Company	Structural Genomics Consortium, Toronto
Description	The pFB-Nflag-LIC vector is a derivative of the pFBOH-LIC vector (SGC). It is a donor vector for generation of recombinant baculovirus by site-specific transposition in an <i>E. coli</i> host. This vector has a N-terminal Flag tag followed by a 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	MDYKDDDDKENLYFQG
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'

pFB-Nflag-LIC cloning/expression region

Polyhedrin promoter

gtatcttact gttttcgtaa cagttttgta ataaaaaac ctataaatat
cataaaatga caaaagcatt gtcaaaacat ttttttttg gatatttata

pFBOH-FWD

----->
tccggattat tcataccgtc ccaccatcgg gcgcggatct cggtcgaaa
aggcctaata agtatggcag ggtggtagcc cgcgctaga gccaggctt

 M D Y K D D D D K E N L Y F Q G
ccatggacta caaggacgat gacgacaagg aaaacttgt atttccagggc/
ggtacctgat gttcctgcta ctgctgttcc ttttgaaca taaaggtcccg/

BseRI

/attatgagtt **ctcctc**

/taataactcaa **gaggag**

-----SACB (2 kb)-----

pFBOH-REV

BseRI stop HindIII ←
gaggagatca tgcaca/tgat gacgaagctt gtcgagaag tactagagga
ctcctctagt acgtgt/acta ctgcttcgaa cagctcttc atgatctcct

SV40 polyadenylation signal

←
tcataatcag ccataaccaca tttgtagagg ttttacttgc tttaaaaaac
agtattagtc ggtatggtgt aaacatctcc aaaatgaacg aaatTTTTTg

ctccacacc tccccctgaa cctgaaacat aaaatgaatg caattgttgt
gaggggtgtgg aggggggactt ggactttgta ttttacttac gttaacaaca

Electronic sequence of pFB-Nflag-LIC (6741bp)

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Map of pFB-Nflag-LIC

