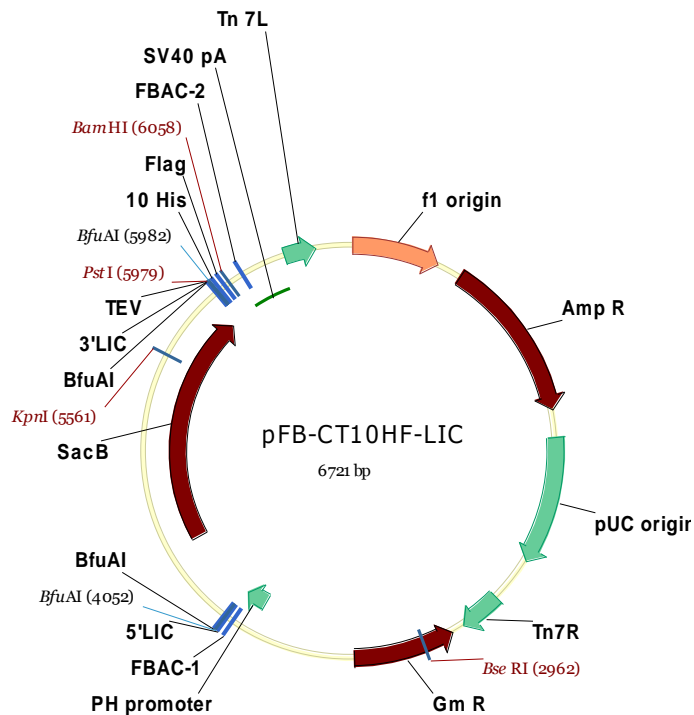


# Vector information sheet

Dated: 8<sup>th</sup> May 2013

Vector Name	<b>pFB-CT10HF-LIC</b>
Source	Grazyna Kochan
Sequence accession/link	(SGC)
Description	Baculovirus transfer vector with with C-terminal His <sub>10</sub> tag and FLAG tag, preceded by a TEV protease cleavage site. Includes sites for LIC cloning, and a “stuffer” fragment that includes the SacB gene, allowing negative selection on 5% sucrose
Antibiotic resistance	Ampicillin, 100 µg/ml
Promoter	Polyhedrin
Cloning	LIC. (vector treated with BfuAI, then with T4 DNA polymerase in presence of dCTP)
Initiation codon	Supplied in PCR primer
C-terminal fusion – seq.	AENLYFQ*SHHHHHHHHHHDYKDDDDK (* - TEV cleavage site)
C-terminal fusion – MW	
Termination codon	Downstream of flag tag
Protease cleavage	TEV
Additional features	Tn7 sequences for in vivo recombination into bacmid DNA in DH10Bac (using InVitrogen’s Bac-to-bac system).
Preferred host	Initial transformation into any cloning strain, then transform purified plasmid into DH10Bac to generate recombinant bacmid DNA
5’ sequencing primer	FBAC1: TATTCATACCGTCCCACCA or FBAC3: TTAAAATGATAACCATCTCG
3’ sequencing primer	FBAC2: GGGAGGTTTTTTAAAGCAAGTAAA



Polylinker region:

5' end:

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                                     BfuAI
                                     ~~~~~~
4021 CCATCGGGCG CGGATCTCCT TAAGAAGGAG ATATACTATG CAGGTCGTTT ACTATTATTT
      GGTAGCCCGC GCCTAGAGGA ATTCTTCCTC TATATGATAC GTCCAGCAAG TGATAATAAA

----- SacB fragment -----

                                     TEV
                                     ~~~~~~
                                     3'LIC
                                     ~~~~~~
BfuAI                                     10 His
~~~~~
BfuAI
~~~~~
PstI
~~~~~
      A E N L Y F Q S H
5941 ATATCCTATT GGCATTGACG TCAGGTGGCA CACCTGCAGA GAACCTCTAC TTCCAATCGC
      TATAGGATAA CCGTAACTGC AGTCCACCGT GTGGACGCTT CTTGGAGATG AAGGTTAGCG
      10 His
      ~~~~~~

                                     Flag
                                     ~~~~~~
                                     BamHI
                                     ~~~~~
      H H H H H H H H H D Y K D D D D K
6001 ACCATCATCA CCATCACCAT CACCACCATG ATTACAAGGA TGACGACGAT AAGTGAGGAT
      TGGTAGTAGT GGTAGTGGTA GTGGTGGTAC TAATGTTTCT ACTGCTGCTA TTCACTCCTA

```

Primers for LIC cloning:

Add the following 5' extensions to the PCR primers:

Upstream: TTAAGAAGGAGATATACTATG (ATG-initiation codon)

Downstream: GATTGGAAGTAGAGGTTCTCTGC

The purified PCR fragments are treated with T4 DNA polymerase and dGTP, then annealed to the treated vector.

pFB-CT10HF-LIC sequence:

```
gacgcgccctgtagcggcgccattaagcgcggcggtgtggtgttacgcgcagcgtgaccgctacactt
gccagcgccttagcgcgccgctcctttcgctttcttcccttcccttctcgccacgttcgcccgtttccc
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