## Vector information sheet

Dated: 8th May 2013

<table>
<thead>
<tr>
<th>Vector Name</th>
<th>pFB-LIC-Bse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source</td>
<td>Opher Gileadi</td>
</tr>
<tr>
<td>Sequence accession/link</td>
<td>EF199842</td>
</tr>
</tbody>
</table>

### Description
Baculovirus transfer vector with His\textsubscript{6} tag in 22-aa N-terminal fusion peptide, with TEV protease cleavage site. Includes sites for LIC cloning, and a “stuffer” fragment that includes the SacB gene, allowing negative selection of transformed bacteria on 5% sucrose.

### Antibiotic resistance
Ampicillin, 100 µg/ml

### Promoter
Polyhedrin

### Cloning
LIC. (vector treated with BseRI, then with T4 DNA polymerase in presence of dGTP)

### Initiation codon
Supplied in PCR primer

### N-terminal fusion – seq.
MGHHHHHHSSGVDLGTENLYFQ\*SM (* - TEV cleavage site)

### N-terminal fusion – MW
2630 Da including Met (2411.8 Da removed by TEV cleavage)

### Termination codons
supplied in PCR primer

### 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

### 3’ sequencing primer
FBAC2: GGGAGGTTCCTAAAGCAAGTAAA
Polylinker region:

FBAC-1 primer
TTATTCATAC CGTCCCACCA
AATAAGTAG TCGAGGTTGGT
NcoI

M G H H H H H H H S S G
TCGGGCGCGG ATCTCGGTCC GAAAACCATG GGCCACCATC
M   G  H  H  H   H  H  H   S  S  G
AGCCCGCGCC TAGAGCCAGG CTTTTGGTAC CGGTGTTAG TAGTGTAGT AGAAGACCA
Lic5
~~~~~~~~~~~~
V D L G T E N L Y F Q S
BglII

BseRI

SacB linker

BseRI

BamHI

Primers for LIC cloning:

Upstream: add TACTTCCAATCCATG to the 5' end (ATG in-frame with the desired coding sequence).

Downstream: add TATCCACCTTTACTG to 5' end of downstream primer; add termination codon, if necessary.