

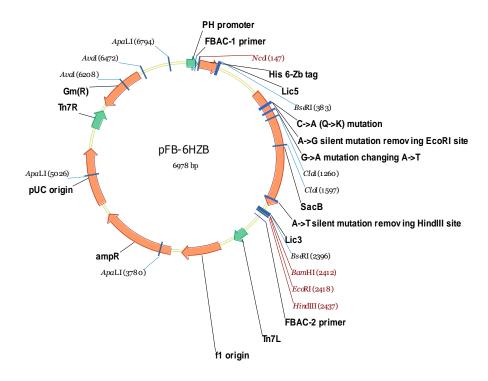
Vector information sheet

Dated: 8th May 2013

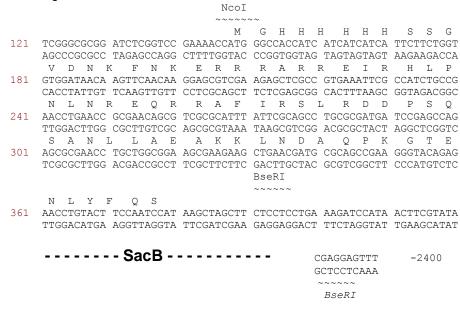
Vector Name	pFB-6HZB
Source	Pravin Mahajan
Sequence accession/link	

Description	Baculovirus transfer vector with His ₆ and Z-basic tags, followed by a TEV protease cleavage site. The Z-basic tag (<i>J. Chromatog A, 1161:22-28</i>) is a 54-aa sequence derived from protein A and modified to have a high positive surface charge, allowing the fusion proteins to bind to S-sepharose at salt concentrations in which most cellular proteins do not bind. Both the His6 tag and the Zb tag allow purification at stringent conditions. The vector includes sites for LIC cloning, and a "stuffer"
	The vector 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.	MGHHHHHHSSGVDNKFNKERRRARREIRHLPNLNREQRRAFIRSLR DDPSQSANLLAEAKKLNDAQPKGTENLYFQ*SM
	(* - TEV cleavage site)
N-terminal fusion – MW	9119 Da including Met
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: GGGAGGTTTTTTAAAGCAAGTAAA



Polylinker region:



2401 ACTAGTAAGT AAAGGTGGAT ACGGATCCGA TGATCATTCA TTTCCACCTA TGCCTAGGCT

Lic3

Primers for LIC cloning:

Upstream: add TACTTCCAATCC \underline{ATG} 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.

pFB-6HZB sequence:

ttgtaataaaaaaacctataaatattccggattattcataccgtcccaccatcgggcgcggatctcggt $\verb|ccgaaaaccatgggccaccatcatcatcattcttctggtgtggataacaagttcaacaaggagcgt|$ cgaagagctcgccgtgaaattcgccatctgccgaacctgaaccgcgaacagcgtcgcgcatttattcgc agcctgcgcgatgatccgagccagagcgcgaacctgctggcggaagcgaagaagctgaacgatgcgcag $\verb|cgtatagcatacattatacgaagttatgcggccgcgacgtccacatatacctgccgttcactattattt|\\$ agtgaaatgagatattatgatattttctgaattgtgattaaaaaggcaactttatgcccatgcaacaga aatccttttatgattttctatcaaacaaaagaggaaaatagaccagttgcaatccaaacgagagtctaa tagaatgaggtcgaaaagtaaatcgcgcgggtttgttactgataaagcaggcaagacctaaaatgtgta aagggcaaagtgtatactttggcgtcaccccttacatattttaggtctttttttattgtgcgtaactaa $\verb|cttgccatcttcaaacaggagggctggaagaagcagaccgctaacacagtacataaaaaggagacatg|$ aacgatgaacatcaaaaagtttgcaaaacaagcaacagtattaacctttactaccgcactgctggcagg aggcgcaactcaagcgtttgcgaaagaaacgaaccaaaagccatataaggaaacatacggcatttccca cgattcgtccacaattaaaaatatctcttctgcaaaaggcctggacgtttgggacagctggccattaca aaacactgacggcactgtcgcaaactatcacggctaccacatcgtctttgcattagccggagatcctaa aaatgcggatgacacatcgatttacatgttctatcaaaaagtcggcgaaacttctattgacagctggaa aaacgctggccgcgtctttaaagacagcgacaaattcgatgcaaatgattctatcctaaaagaccaaac acaagaatggtcaggttcagccacatttacatctgacggaaaaatccgtttattctacactgatttctc cggtaaacattacggcaaacaaacactgacaactgcacaagttaacgtatcagcatcagacagctcttt $\tt gaacatcaacggtgtagaggattataaatcaatctttgacggtgacggaaaaacgtatcaaaatgtaca$ gcagttcatcgatgaaggcaactacagctcaggcgacaaccatacgctgagagatcctcactacgtaga agataaaggccacaaatacttagtatttgaagcaaacactggaactgaagatggctaccaaggcgaaga atctttatttaacaaagcatactatggcaaaagcacatcattcttccgtcaagaaagtcaaaaacttct $\tt gcaaaagcgataaaaaacgcacggctgagttagcaaacggcgctctcggtatgattgagctaaacgatga$ $\verb|ttacacactgaaaaaagtgatgaaaccgctgattgcatctaacacagtaacagatgaaattgaacgcgc||$ $\tt gaacgtctttaaaatgaacggcaaatggtacctgttcactgactcccgcggatcaaaaatgacgattga$ cggcattacgtctaacgatatttacatgcttggttatgtttctaattctttaactggcccatacaagcc $\verb|cttcgctgtacctcaagcgaaaggaaacaatgtcgtgattacaagctatatgacaaacagaggattcta|\\$ $\verb|cgcagacaacaatcaacgtttgcgcctagcttcctgctgaacatcaaaggcaagaaaacatctgttgt|$ $\verb|caaagacagcatccttgaacaaggacaattaacagttaacaaataaaaacgcaaaagaaaatgccgata| \\$ cgaattcgagctccgtcgacaagcttgtcgagaagtactagaggatcataatcagccataccacatttg ttgttgttgttaacttgtttattgcagcttataatggttacaaataaagcaatagcatcacaaatttca $\verb|caa| at a a agc at the thick can be called the constant of the constant of$ $\verb|tctggatctgatcactgatatcgcctaggagatccgaaccagataagtgaaatctagttccaaactatt|$ ttgtcatttttaattttcgtattagcttacgacgctacacccagttcccatctattttgtcactcttcc $\verb|cta| a a tact taa a a act c catt t c cacccct c c cagt t c c ca act at ttt g t c c g c c ca cag c g g g$ $\verb|gcatttttcttcctg| ttatgtttttaatcaaacatcctgccaactccatgtgacaaaccgtcatcttcg|$ gctactttttctctgtcacagaatgaaaatttttctgtcatctcttcgttattaatgtttgtaattgac tgaatatcaacgcttatttgcagcctgaatggcgaatgggacgcgccctgtagcggcgcattaagcgcg gcgggtgtggtggttacgcgcagcgtgaccgctacacttgccagcgccctagcgcccgctcctttcgct ttcttcccttcctttctcgccacgttcgccggctttccccgtcaagctctaaatcggggggctcccttta gggttccgatttagtgctttacggcacctcgaccccaaaaaacttgattagggtgatggttcacgtagt gggccatcgccctgatagacggtttttcgccctttgacgttggagtccacgttctttaatagtggactc ttgttccaaactggaacaacactcaaccctatctcggtctattcttttgatttataagggattttgccg atttcggcctattggttaaaaaatgagctgatttaacaaaaatttaacgcgaattttaacaaaatatta acgtttacaatttcaggtggcacttttcgggggaaatgtgcgcggaacccctatttgtttatttttctaa atacattcaaatatgtatccgctcatgagacaataaccctgataaatgcttcaataatattgaaaaaagg aagagtatgagtattcaacatttccgtgtcgcccttattcccttttttgcggcatttttgccttcctgtt tttgctcacccagaaacgctggtgaaagtaaaagatgctgaagatcagttgggtgcacgagtgggttac ${\tt atcgaactggatctcaacagcggtaagatccttgagagttttcgccccgaagaacgttttccaatgatg}$ agcacttttaaagttctgctatgtggcgcggtattatcccgtattgacgccgggcaagagcaactcggt $\verb|cgccgcatacactattctcagaatgacttggttgagtactcaccagtcacagaaaagcatcttacggat|$

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