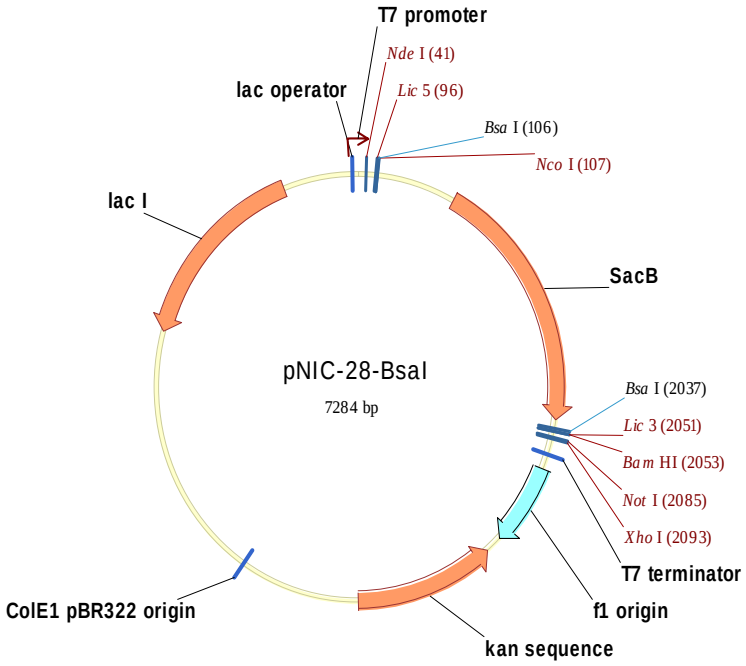
Vector information sheet.

Vector Name	**pNIC28-Bsa4**
Source	Opher Gileadi
Sequence accession/link	Genebank EF198106

Description	pET expression vector with His_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 on 5% sucrose

Antibiotic resistance	Kanamycin, 50 μg/ml
Promoter	T7 - lacO
Cloning	LIC. (vector treated with BsaI, then with T4 DNA polymerase in presence of dGTP)
Initiation codon	Supplied in PCR primer
N-terminal fusion – seq.	MHHHHHHSSGVDLGTENLYFQ*SM (* - TEV cleavage site)
N-terminal fusion – MW	2684.1 Da including Met (2465.8 Da removed by TEV cleavage)
Termination codons	supplied in PCR primer
Protease cleavage	TEV
Additional features	
Preferred host	DE3 hosts: BL21, Rosetta, etc. MUST express T7 RNA polymerase.
5’ sequencing primer	pLIC-for: TGTGAGCGGATAACAATTCC
3’ sequencing primer	pLIC-rev: AGCAGCCAACTCAGCTTCC



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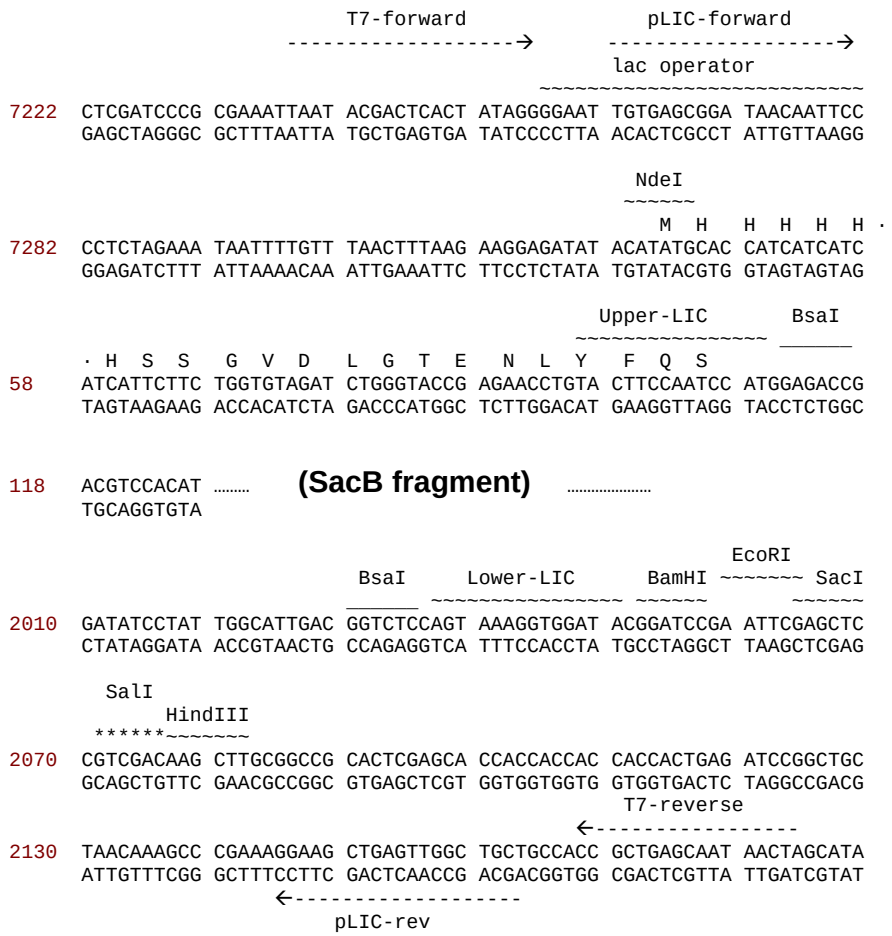
Polylinker region



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.

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