



**BglII**

AGAGGATCGAGATCTCGATCCCGCGAAATTAATACGACTCACTATAAGGGATTGTGAGCGGATAACAATTCCCC  
TCTCCTAGCTCTAGAGCTAGGGCGTTAATTATGCTGAGTGATATCCCCTAACACTCGCCTATTGTTAAGGGG 5025

**T7 promoter** → **lac operator**

**XbaI**

TCTAGAAATAATTTGTTAACCTTAAGAAGGAGATACATATGAAATACCTGCTGCCGACCGCTGCTGGT 5100  
AGATCTTATTAAAACAAATTGAAATTCTCCTATATGTATACTTTATGGACGACGGCTGGCGACGACGACCA

1 Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly >  
10 5 10 15 20  
**pelB signal sequence**

**NdeI**

**NcoI**

CTGCTGCTCCTCGCTGCCAGCCGGCGATGCCATGGATATCGGAATTAAATTGGATCCGAATTGAGCTCCGTC 5175  
GACGACGAGGAGCGACGGCTGGCCGCTACCGGTACCTATAGCCTTAATTAGGCTTAGGCTTAAGCTGAGGCAG

15 20  
Leu Leu Leu Leu Ala Ala Gln Pro Ala Met Ala Met Asp Ile Gly Ile Asn Ser Asp Pro Asn Ser Ser Ser Val  
**pelB signal sequence** (in frame with pelB signal sequence) →  
**MCS**

**HindIII**   **NotI**   **XbaI**

GACAAGCTTGCAGCGCACTCGAGCACCAACCACCAACTGAGATCCGGCTGCTAACAAAGCCGAAAGGAA  
CTGTTGAAACGCCGGCTGAGCTCGTGGTGGTGGTGGTACTCTAGGCCACGATTGTTGGCTTTCCCTT 5250

Asp Lys Leu Ala Ala Ala Leu Glu 1 His His His His His \*  
(in frame with pelB signal sequence) → **6xHis** →  
**MCS**