

## TTTTTG

The DNA sequence of the N-terminal 10 -His tag is shown in blue, the disulfide isomerase $d s b C$ is shown in green, and the TEV protease recognition sequence is shown in red. Please note, DsbC is a dimer.

To insert genes by Gibson assembly, first cut the vector with BamHI. This will leave the 3' end of the coding strand precisely at the end of the TEV recognition peptide, making it easy to insert your protein sequence directly in-frame. Don't forget to include a stop codon at the end of your gene as this vector does not include one.

Note: The cystine-nucleophile protease TEV cuts at the C-terminal side of its recognition sequence "ExxYxQ" leaving your protein unlabeled. However, it cannot cut if either of the next two residues immediately downstream is a proline (a.k.a. the first or second residue of your protein).

This vector carries a kanamycin resistance cassette, and the vector was created by modifying pET29b.

The BamHI restriction endonuclease cleaves at:

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5'-GIG A T C C - 3'
3'- C C T A GIG -5'
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For Gibson cloning, including the following cassettes at the ends of the coding strand of your construct:
upstream cassette
5'- GCGAAAACCTGTATTTTCAG -3'
downstream cassette (with two stop codons)
5' - TAATGACGGCTGCTAACAAAGCCCGA -3'

