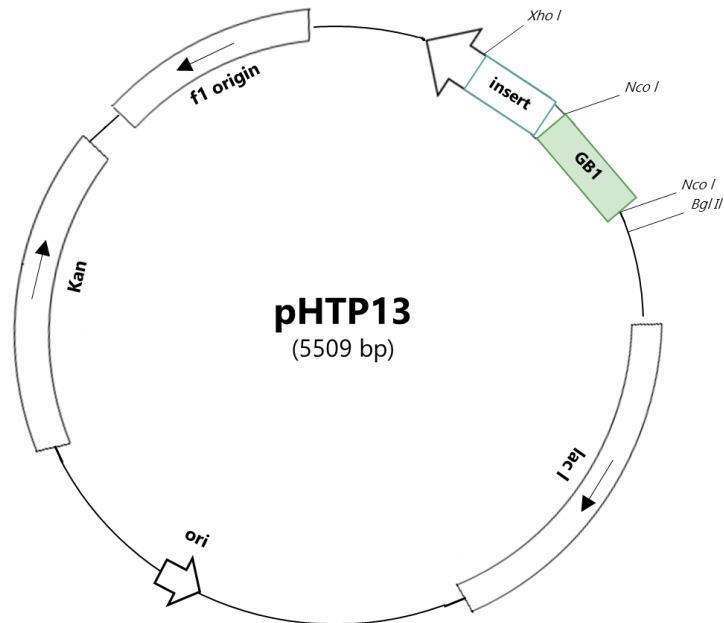


pHTP13 Vector

pHTP13 was designed for the cloning and expression of high-levels of recombinant proteins in *Escherichia coli*. Recombinant proteins are expressed in fusion with the Gb1 domain of protein G (GB1), which is commonly used to promote solubility and folding of its fusion partners. This vector, included in the portfolio of NZYtech pHTP expression vectors, is part of the NZYEasy Cloning & Expression System. pHTP13 contains two poly-histidine (6xHis) sequences (N- and C-terminal) which allow subsequent recombinant protein purification by immobilized metal ion affinity chromatography (IMAC).

1. Vector Map



pHTP13 Cloning/Expression Region

<i>Nco I</i>	GB1	<i>Nco I</i>	His-Tag
<u>CCATGG</u> GATGCACTACAAACTTGCTCTGAAC .168bp .ACCAAAACCTTCACGGTAACCGAAG <u>CCATGG</u> GCAGCAGCCATCATCATCATCACAGCAGCGGC			
MetGlyMetGlnTyrLysLeuAlaLeuAsn.56aa .ThrLysThrPheThrValThrGluAlaMetGlySerSerHisHisHisHisHisHisSerSerGly			
CCTCAGCAAGGGCTGAGG / ⌘ / CCTCAGCTTCGGCTGAGGTCCGTCGACAAGCTTGCGGCCGCAC <u>CTCGAG</u> CACCACCACCACCACCAC TGAGATCCGGCTGCT		<i>Xho I</i>	His-Tag STOP
ProGlnGlnGlyLeuArg / ⌘ / ProGlnLeuProLeuArgSerValAspLysLeuAlaAlaAlaLeuGluHisHisHisHisHisHis*			

⌘< Represents the site where the gene will be inserted.

Note: For correct expression, inserted gene needs to be in frame with pHTP13 5' gene sequence. Inserts correctly cloned into pHTP13 will maintain reading frames starting on the ATG codon.

