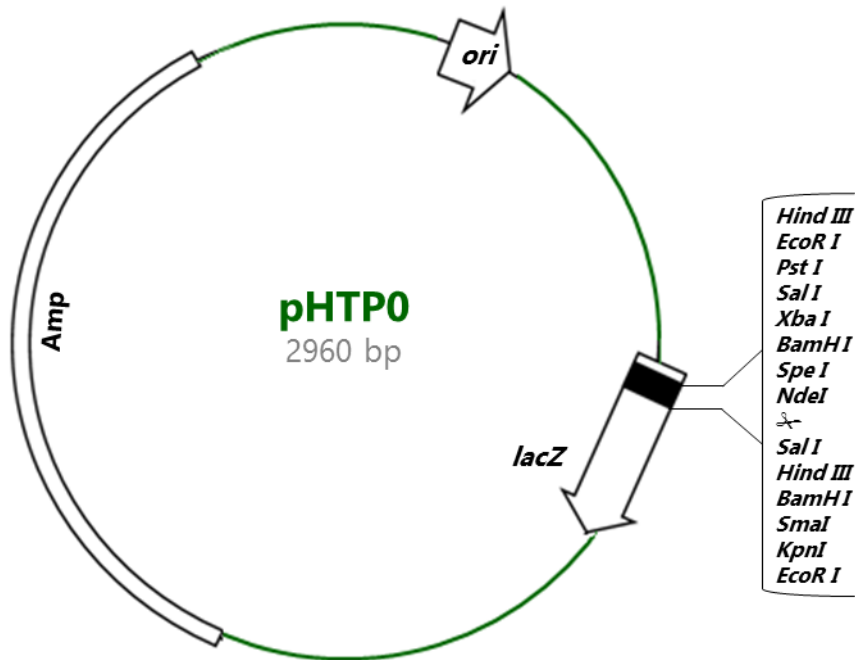


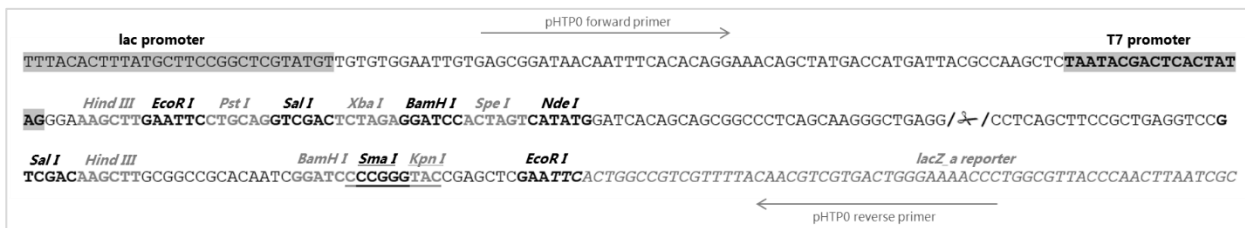
pHTP0 Expression Vector

pHTP0 was engineered for directional cloning of any PCR-generated fragment in a single ligase-independent reaction mediated by the NZYEasy enzyme mix. This vector, included in the portfolio of NZYTech pHTP vectors, is part of the NZYEasy Cloning & Expression System.

1. Vector Map



pHTP0 Cloning Region



λ Represents the site where the gene will be inserted.

2. Vector Sequence (2960 bp)

ATGACCATGATTACGCCAAGCTCTAATACGACTCACTATAGGGAAAGCTTGAATTCCTGCAGGTCGACTCTAGAGGATCCACTAGTCATATGGATCAC
 AGCAGCGGCCCTCAGCAAGGGCTGAGG/✂/CCTCAGCTTCCGCTGAGGTCCGTCGACAAGCTTGCAGGCGCACAAATCGGATCCCCGGGTACCGAGCT
 CGAATTCAGTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCCGCGAGCTGG
 CGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGAATTTGTAAGCGTTAATATTTTTGTTAAAATTC
 GCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCCCTTATAAATCAAAGAATAGACCAGATAGGGTTGAG
 TGTGTTCCAGTTTGGAAACAAGAGTCCACTATTAAGAAGCTGGACTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCACTACGTG
 AACCATCACCTAATCAAGTTTTTTGGGGTCGAGGTGCGCTAAAGCACTAAATCGGAACCCCTAAAGGGAGCCCCGATTAGAGCTTGACGGGAAAG
 CCGGCGAACGTGGCGAGAAAGGAAGGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTACCGTGCAGCGTAACCACCACACC
 CGCCCGCTTAATGCGCCGCTACAGGGCGCGTCAGGTGGCATTTCGGGAAATGTGCGCGGAACCCCTATTTGTTTTATTTCTAAATACATTCAA
 ATATGTATCCGCTCATGAGACAATAACCTGATAAATGCTTCAATAATTTGAAAAAGGAAGATGAGTATTCACATTTCCGTGTCGCCCTTATT
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 CATCGAAGTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCCCCGAAGAAGCTTTTCCAATGATGAGCACTTTTAAAGTCTGCTATGTGGC
 CGGTATTTCCCGTATTGACGCCGGCAAGAGCAACTCGGTCCGCCATACACTATTCTCAGAAAGACTTGGTTGAGTACTCACAGTACAGAAAAG
 CATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGTCCATAACCATGAGTGATAACTGCGGCCAACTTACTTCTGACAACGATCGGAGG
 ACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGGATCATGTAACCTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACG
 AGCGTGACACCAGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAAGTGGCAACTACTTACTAGCTTCCCGGCAACAATTAATAGAC
 TGGATGGAGGCGGATAAAGTTGAGGACCACTTCTGCGCTCGGCCCTTCCGGTGGCTGGTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTC
 TCGCGGTATCATGTCAGCACTGGGGCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGAGTCAAGGCAACTATGGATGAACGAAATA
 GACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTTGGTAACTGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAAACCTTCATTTT
 TAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTAACGTCAGTTTTCGTTCCACTGAGCGTCAGACCCCGTAGA
 AAAGATCAAAGGATCTTCTTGAGATCCTTTTTCTGCGCGTAATCTGCTGCTGCAACAACAAAAACACCAGCTACCAGCGGTGGTTTGTTCGCGG
 ATCAAGAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTACAGCAGCGCAGATACCAAACTACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCAC
 TTCAAGAACTCTGTAGCACCGCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGA
 CTAAGACGATAGTTACCGGATAAGGCGCAGCGGTCCGGGTGAACGGGGGTTTCGTGCACACAGCCAGCTTGGAGCGAACGACCTACACCGAACTGA
 GATACCTACAGCGTGAAGTATGAGAAAAGCGCCACGCTTCCCGAAGGGAGAAAGCGGACAGGTATCCGGTAAGCGGCGAGGTCGGAACAGGAGAGCGC
 ACGAGGAGCTTCCAGGGGAAACGCCTGGTATCTTTATAGTCTGTCGGGTTTCGCCACCTTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGG
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 GAAGAGCGCCCAATACGCAACCGCCTCTCCCGCGCGTTGGCCGATTCAATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGA
 GCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGGAATTTGGAGCGGAT
AACAATTTACACAGGAAACAGCT

pHTP0 sequence landmarks:

- **Selectable marker:** Ampicillin (944-1804 bp)
- **T7 promoter:** 24-42 bp
- **Cloning region:** ✂
- **lacZ_a reporter:** 197-356 bp
- **lac promoter:** 2887-2916 bp
- **Colony PCR/sequencing primers** (pHTP0 forward & reverse primers): in purple underlined (Extra size: 268 bp)