

pQE-T7-1 Vector

Positions of elements in bases

Vector size (bp)	5317
T7 promotor	338–322
T7 transcription start	321
Multiple cloning site (<i>Nde</i> I – <i>Xho</i> I)	217–158
10xHis-tag coding sequence	244–215
T7 terminator	72–26
<i>lac</i> I coding sequence	725–1804
pBR322 origin	3238
Kan coding sequence	3947–4759
f1 origin	5309–4854

pQE-T7-1 cloning/expression region

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TCGATCCCGCGAAATTAATACGACTCACTATAGGCGAATTGTGAGCGGATAACAATTC
CCCTCTAGAAATAATTTTGT'TTAACTTTAAGAAGGAGATATAAATATGAAACATCATC
ATCACCATCACCACCATCATCATATGCATGGAGCTCATGCGG(CCGCG)GTACGCACG
TCTGCAGCCTAGTAAGACTCGAGCACCACCACCACCACCTGAGATCCGGCTGCTAA
CAAAGCCCGAAAGGAAGCTGAGTTGGCTGCTGCCACCGCTGAGCAATAACTAGCATA
ACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTG
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T7 promotor

lac operator

RBS

10xHis-tag (CACCATCACCATCACCAT; last 3 bases form part of second *Nde*I site)

*Nde*I recognition sequence (CATATG)

*Sac*I recognition sequence (GAGCTC)

*Eag*I recognition sequence (CGGCCG)

*Not*I recognition sequence (GCGGCCGC)

*Sac*II recognition sequence (CCGCGG)

*Kpn*I recognition sequence (GGTACC)

*Pst*I recognition sequence (CTGCAG)

*Xho*I recognition sequence (CTCGAG)

Amber stop (TAG)

Stop (TAA)

T7 transcriptional termination region



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