

pQE-T7-2 Vector

Positions of elements in bases

Vector size (bp)	5291
T7 promotor	312–296
T7 transcription start	295
Multiple cloning site (<i>NdeI</i> – <i>XhoI</i>)	224–173
10xHis-tag coding sequence	172–143
T7 terminator	72–26
<i>lacI</i> coding sequence	699–1778
pBR322 origin	3242
Kan coding sequence	3921–4733
f1 origin	5283–4828

pQE-T7-2 cloning/expression region

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TCGATCCCGCGAAATTAATACGACTCACTATAGGGAATTGTGAGCGGATAACAATTC
CCCTCTAGAAATAATTTTGTTTAACTTTAAGAAGGAGATATAAATCATATGCATGGAG
CTCATGCGG(CCGCGS)GTACCACGCTGTCGAGCCCTCGAGCATCATCATCACCATCAC
CACCATCATCATTAGTAA GATCCGGCTGCTAACAAAGCCCGAAAGGAAGCTGAGTTGG
CTGCTGCCACCGCTGAGCAATAAC TAGCATAACCCCTTGGGGCCTCTAAACGGGTCTT
GAGGGGTTTTTTG
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T7 promotor

lac operator

RBS

10xHis-tag (CACCATCACCATCACCAT

NdeI recognition sequence (CATATG)

SacI recognition sequence (GAGCTC)

EagI recognition sequence (CGGCCG)

NotI recognition sequence (GCGGCCGC)

SacII recognition sequence (CCGCGG)

KpnI recognition sequence (GGTACC)

PstI recognition sequence (CTGCAG)

XhoI recognition sequence (CTCGAG)

Amber stop (TAG)

Stop (TAA)

T7 transcriptional termination region



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