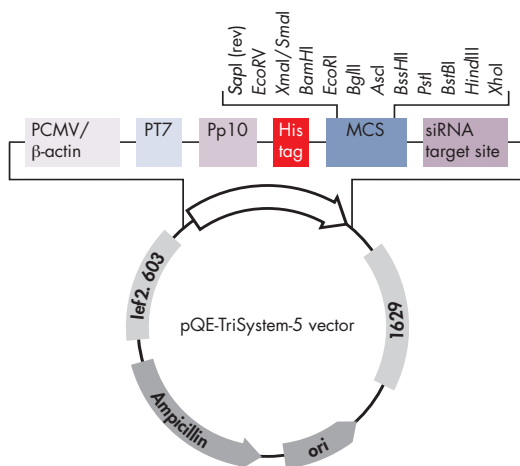


# pQE-TriSystem-5 vector

## Positions of elements in bases

Vector size (bp)	5292
CMV ie enhancer region	1079–1443
Chicken $\beta$ -actin promoter region	1449–1726
Vertebrate transcription start	1727
T7 promoter	2150–2166
T7 transcription start	2167
lac operator	2171–2191
p10 promoter region	2205–2318
p10 transcription start	2249–2250
ATG translation start	2333
10x His Tag coding sequence with TAGzyme Stop (Q)	2333–2371
siRNA target site	2449–2467
Rabbit globin terminator region	2585–2790
T7 terminator	2796–2842
pUC origin	3771
bla coding sequence	4362–5230



# pQE-TriSystem-5 vector: Cloning/expression region

TTTGTGTAAAAATAACAGCCATTGTAATGAGACGCACAACTAATATCACAACTGGAAATGTCTATCAATATATAGTTGCTGATGGCCGGCCGTAATGAGACGCA  
CAAATAATATCACAACTGGAAATGTCTATCAATATATAGTTGCTCTAGTTATAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCGCGGTTA  
CATAACTACGGTAAATGGCCCGCTGGCTGACCGCCCAACGACCCCCGCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCAATAGGGACTTTC  
CATTGACGTCAATGGGTGGAGTATTTACGGTAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCC  
CGCCTGGCATTATGCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGCATGGTCGAGGTGAGCCCCACGTTCT  
GCTTCACTCTCCCCATCTCCCCCTCCCCACCCCAATTTTGTATTTATTTTAAATTTTGTGCAGCGATGGGGGGCGGGGGGGGGGGGGGGCGCGCGCCA  
GGCGGGGGCGGGGCGGGGCGAGGGGCGGGGCGGGGCGAGGCGGAGAGGTGCGGGCGGAGCCAATCAGAGCGGGCGCGCTCCGAAAGTTTCTTTTATGGC  
GAGGCGGCGGGCGGGCCCTATAAAAAGCGAAGCGCGGGCGGGCGGAGTGCCTGCGCGCTGCCCTTCGCCCCGTGCCCGCTCCGCCCGCCG  
CTCGCGCCGCCCGCCCGGCTCTGACTGACCGCGTACTCCACAGGTGAGCGGGCGGGACGGCCCTTCTCCTCGGGCTGAATTAGCGCTTGTTAATGACG  
GCTTGTCTTTCTGTGGCTGCGTAAAGCCTTGAGGGGCTCCGGGAGGGCCCTTGTGCGGGGGGAGCGGCTCGGGGCTGTCCGCGGGGGGACGGCTGC  
CTTCGGGGGGGACGGGGCAGGGCGGGGTTGCGCTTCTGGCGTGTGACCGGGCTCTAGAGCCTCTGTAACCATGTTTCATGCTTCTTTTCTACAGCTC  
CTGGGCAACGTGCTGTTATTGTCTCATATTTGGCAAAGAATTGGATCGGACCGAAATTAATACGACTCCTATAGGGGAATTGTGAGCGGATAACAAT  
CCCCGAGTAAATCCGGACCTTAATCAACCCAACAATATATAGTTAAATAAGAATTATTATCAAATCATTTGTATATTAATAAAATACTATACTGTAATTA  
CATTTTATTACAATCAAAGGAGATATACCATGAAGACCACCACCATCACCACCATCAGTGAAGAGCGATATCCCGGTGGATCCGAATTCTCAGATCT  
CGGCGCGCCTGCAGGGTTCGAAGCTTATACTCGAGAAGCGTTGAAATAGCGTACAAGTCGAGCACCACCATCACCATCACTAAAGTGATTA  
CCTCAGGTGCAGGCTGCCTATCAGAAGGTGGTGGCTGTGGCCAATGCCCTGGCTCACAAATACCACTGAGATCGATCTTTTCCCTCTGCCAAAAATTATGG  
GGACATCATGAAGCCCCCTGAGCATCTGACTTCTGGCTAATAAAGGAAATTTTTCATTGCAATAGTGTGTTGGAATTTTTGTGTCTCTCACTCGGAAGGA  
CATATGGGAGGGCAAATCATTTAAACATCAGAATGAGTATTTGGTTTAGAGTTTGGCAACATATGCCCATATGTAAC TAGCATAACCCCTTGGGG  
CCTCAAACGGGTCTTGAGGGTTTTGTGAAAGCATGCGGAGGAAATTCCTTGAAGTTTCCCTGGTGTCAAAGTAAAGGAG

CMV ie enhancer region  
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Chicken β-actin promoter region  
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Vertebrate transcription start  
Chicken β-actin promoter region  
T7 promoter / T7 transcription start lac operator  
p10 promoter region / p10 transcription start  
p10 promoter region ATG translation start 10x His tag coding sequence with TAGzyme Stop (Q) SapI (rev) EcoRV XmaI/SmaI BamHI EcoRI BglII  
BssHII / AscI PstI BstBI HindIII XhoI siRNA target site  
Rabbit globin terminator region  
Rabbit globin terminator region  
Rabbit globin terminator region T7 terminator  
T7 terminator