

# pQE30



## Expresión 16

Clonada en DH5 $\alpha$  Resistencia Ampicilina 100  $\mu$ g/mL

### Description pQE30 vector :

This plasmid is used for expression of N-terminally His-tagged proteins.

QIAexpress pQE vectors and constructs can be maintained in any E. coli strain that is ampicillin-sensitive and carries the pREP4 repressor plasmid, or harbors the lacIq gene on the F-factor episome.

Promoter primer: 5'-CCCGA AAAGT GCCAC CTG-3'; Type III/IV primer: 5'-CGGAT AACAA TTTCA CACAG-3'; Reverse primer: 3'-GGTCA TTACT GGAGT CTTG-5'

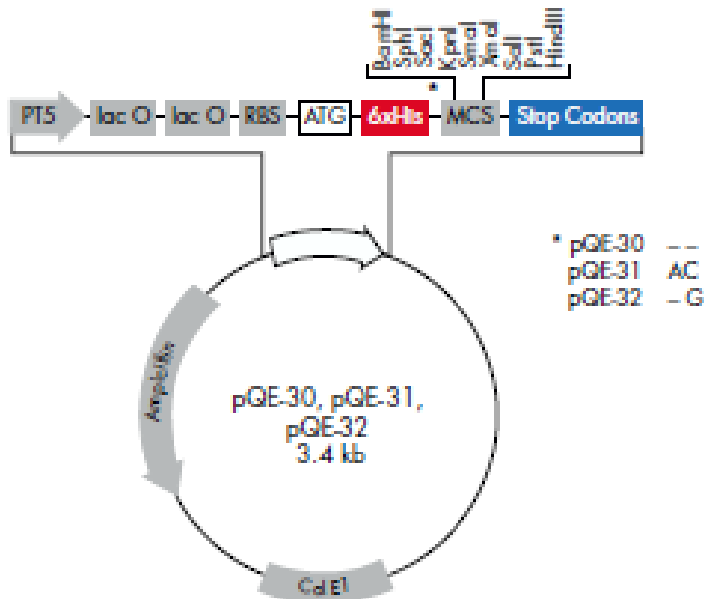
### Complete sequence:

[https://www.lablife.org/g?a=seqa&id=vdb\\_g2.LFDUzBbnQSfv3xVUnRWZ2KRF3C4-sequence\\_1a177a08aa567d7c3f62cb134622f6cd67bcb032\\_10](https://www.lablife.org/g?a=seqa&id=vdb_g2.LFDUzBbnQSfv3xVUnRWZ2KRF3C4-sequence_1a177a08aa567d7c3f62cb134622f6cd67bcb032_10)

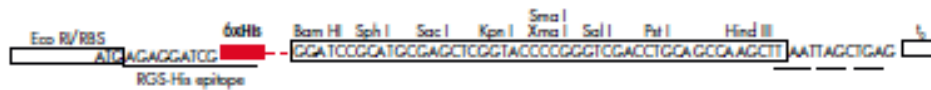
**Genotype of *E coli* strain BL21(DE3) pLysS :** F- *ompT hsdS*(rB- mB-) *gal dcm*  $\lambda$ (DE3) pLysS (Camr )( $\lambda$ (DE3): *lacI*, *lacUV5-T7* gene 1, *ind1*, *sam7*, *nin5* )

| Positions of elements in bases                                 | pQE-30    |
|--|-----------|
| Vector size (bp)   | 3461      |
| Start of numbering at XhoI (CTCGAG)                            | 1-6       |
| T5 promoter/lac operator element                               | 7-87      |
| T5 transcription start   | 61        |
| 6xHis-tag coding sequence                                      | 127-144   |
| Multiple cloning site  | 145-192   |
| Lambda <i>t<sub>o</sub></i> transcriptional termination region | 208-302   |
| <i>rrnB</i> T1 transcriptional termination region              | 1064-1162 |
| ColE1 origin of replication                                    | 1638      |
| $\beta$ -lactamase coding sequence                             | 3256-2396 |

# pQE30



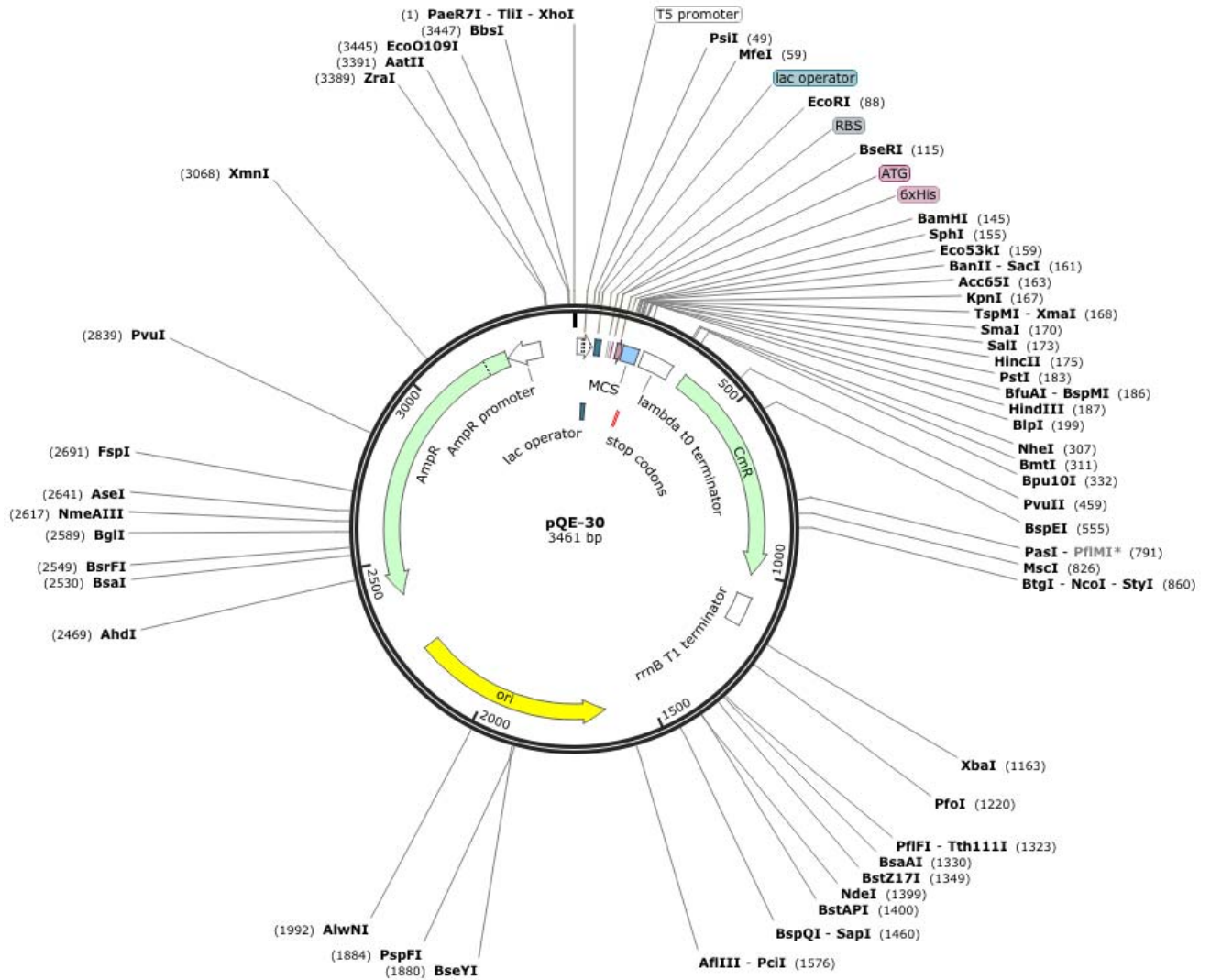
## pQE-30



## pQE30 開始コドン

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ATG | AGA | GGA | TCG | CAT | CAC | CAT | CAC | CAT | CAC | GGA | TCC | GGT | TAT |
| M   | R   | G   | S   | H   | H   | H   | H   | H   | H   | G   | S   | G   | Y   |
| GGT | CGT | AAG | AAG | CGA | CGA | CAA | CGT | CGT | CGT | GGT | AAG | GTA | COC |
| G   | R   | K   | K   | R   | R   | Q   | R   | R   | R   | G   | K   | V   | P   |

# pQE30



# pQE30

| Feature Name       | Start | End  |
|--------------------|-------|------|
| CAT/CamR           | 346   | 1005 |
| rrnB_T1_terminator | 1073  | 1116 |
| pGEX_3_primer      | 1225  | 1203 |
| Ampicillin         | 3256  | 2396 |
| AmpR_promoter      | 3326  | 3298 |

| Enzyme Name | Cut  |
|-------------|------|
| XhoI        | 1    |
| EcoRI       | 88   |
| BamHI       | 145  |
| SacI        | 161  |
| KpnI        | 167  |
| SmaI        | 170  |
| XmaI        | 168  |
| SalI        | 173  |
| PstI        | 183  |
| HindIII     | 187  |
| NheI        | 307  |
| PvuII       | 459  |
| MscI        | 826  |
| NcoI        | 860  |
| XbaI        | 1163 |
| NdeI        | 1399 |
| AscI        | 2641 |
| FspI        | 2691 |
| AatII       | 3391 |

| ORF         | Start | End  |
|-------------|-------|------|
| ORF frame 1 | 346   | 1005 |
| ORF frame 2 | 3256  | 2396 |