

Product datasheet for **VC102142**

gag-pro (NC_001436) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	gag-pro (NC_001436) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	gag-pro
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>The Viral ORF clone VC102142 represents NCBI reference of NP_057861 with codon optimized for human cell expression

Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGCAAATTTTCAGCCGGTCTGCAAGTCTATTCTAGACCTCCACGCGGCTTGGCTGCCATCACT
GGTTGAACTTCCTGCAGGCAGCTTATAGGCTGGAGCCAGGCCCTAGTTCTTACGATTTTCACCAGCTGAA
AAAGTTCTCAAGATCGCCCTGGAACACCAGTTTGGATTTGCCCTATTAATACTTCTCTCTCTGGCCTCT
CTTCTTCCCAAGGGATATCCCGGCAGAGTGAACGAGATCTGCACATCTGATACAGACACAGGCTCAGA
TTCCAGTAGGCCAGCTCCTCCGCCACCCTTCTCTCCACACATGACCCACCCGATAGCGACCCACAGAT
CCCACCGCGTACGTGGAGCCCACAGTCCCCAGGTGCTCCCCGTGATGCACCCTCACGGTGACCTCCA
AACCACAGGCCATGGCAGATGAAGGATCTGCAGGCGATCAAACAAGAAGTTAGCCAGGCAGCTCCGGGT
CACCACAATTTATGCAGACGATCCGCCCTTGCCGTCCAGCAGTTTGACCCACAGCCAAGGACCTCCAGGA
TTTGCTGCAATACCTTTGCTCTTCTCTCGTCGTTCTCTGCATACCAGCAACTGATAGCCTTATTAGC
GAGGCCGAGACCCGGGGCATCACTGGATATAACCCACTCGCGGGTCCCCTCAGAGTCCAGGCCAACAAACC
CCCAGCAGCAAGGTCTGAGACGCGAATACCAACAGCTCTGGCTTGTGCTTTGCCGCTCTGCCAGGAAG
CGCCAAAGATCCTTCTGGGCATCCATCTGCAGGGACTGGAGGAGCCCTACCACGCCTTTGTCGAAAGA
CTGAATATCGCCCTGGATAACGGCCTTCTGAGGGCACCCCTAAAGATCCCATCCTCAGAAGCCTCGCCT
ACAGCAACGCTAATAAAGAAATGCCAGAACTGCTTCAGGCCAGAGGCCATACCAACTCACCGCTCGGCGA
CATGCTGAGAGCTTGCCAGGCTTGACCCTAAAGACAAAACCAAGGTCCTGGTAGTTAGCCAAAAAAG
CCCCCTCAAACCAGCCCTGCTTCAGGTGCGGAAAGCCGGGCATTGGTCTCGGGACTGTACCCAAACCCA
GGCCGCCTCCTGGCCATGTCTCTCTGCAAGACCCAACGCACTGGAAACGGGATTGCCCCGACTTAA
GCCTACCATCCCCGAGCCGAACCCGAAGAGGACGCCCTTCTGCTTGACCTTCTGCCGACATCCCGCAC
CCTAAGAATCTTACAGGGGAGGAGGCCTTACATCTCCCCAACTTTGCAACAGGTGCTGCCGAATCAGG
ATCCAACATCTATCCTCCCGTTATACCACTTGATCCAGCGAGAAGACCCGTGATTAAGCACAGATTGA
CACACAGACCAGCCACCCAAAACAATAGAGGCCTTGCTGGACACCGGGGCCGATGACGGTGCTCCCA
ATTGCTCTGTTTAGTAGTAATACCCCACTGAAGAACACCAGCGTTCTGGGCGCAGCGGCCAGCCAGG
ACCACTCAAATTGACCTCCCTCCCTGTGCTGATAAGGTTGCCGTTTAGAACCACTCCTATTGTTCTTAC
CTCATGTCTCGTCGACACCAAGAACAATGGGCGATTATTGGGCGAGACGCTCTGCAACAGTGTCAGGGG
GTCCTGTACCTCCCCGAGGCTAAACGACCCCCGTTATATTGCCTATCCAGGCCCCCGCGGTCTGGGGC
TTGAACACCTTCTAGACCTCCCGAGATTAGCCAGTTTCCCTGAATCAGAATGCCTCCAGACCATGTAA
CACGTGGAGCGGCCGCCATGGAGACAAGCGATTAGCAATCCCACACCAGGGCAAGAGATAACACAATAC
AGCCAGCTGAAGAAGCCTATGGAGCCTGGAGATAGTTCAACCACTTGGGGCCTCTGACACTG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >VC102142 representing NP_057861
 Red=Cloning sites Green=Tags

```

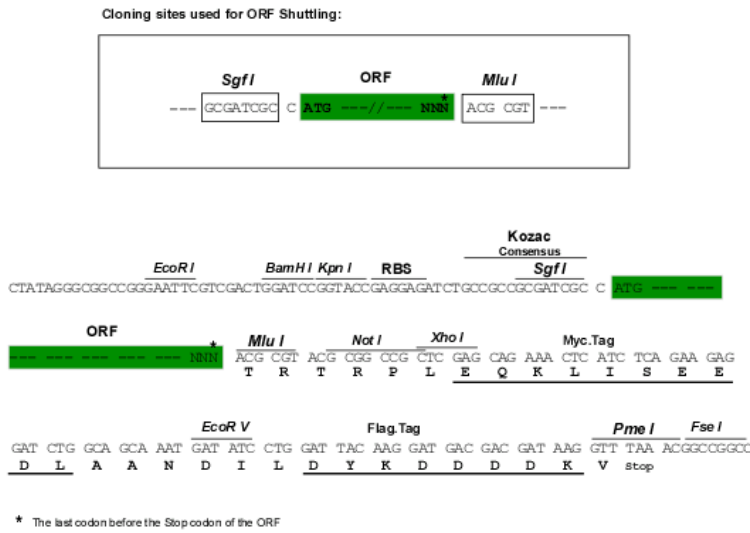
MGQIFRSASPIPRPPRGLAAHHWLNFLQAAYRLEPGSSYDFHQLKFLKIALETPVWICPINYSLLAS
LLPKGYGPRVNEILHILIQTQAQIPSRPAPPPSSSTHDPDSDPQIPPPYVEPTAPQVLPVMHPHGAPP
NHRPWQMKDLQAIKQEVSAAPGSPQFMQTIRLAVQQFDPTAKDLQDLLQYLCSSLVASLHHQQLDSLIS
EAETRGITGYNPLAGPLRVQANNPQQGLRREYQQLWLAFAALPGSAKDPASWASILQGLEEYPYHAFVER
LNIALDNLGPEGTPKDPILRSLAYSNANKECQKLLQARGHTNSPLGDMLRACQAWTPKDKTKVLVVQPKK
PPPNQPCFRCGKAGHWSRDCTQPRPPPGPCPLCQDPTHWKRDCPRLKPTIPEPEEEDALLLDLPADIPH
PKNLHRGGGLTSPPTLQVLPNQDPTSILPVIPLDPARRPVIIKAQIDTQTSHPKTI EALLDGTGADMTVLP
IALFSSNTPLKNTSVLGAGGQTQDHFKL TSLPVLIRLPRFTTPIVLTSLVDTKNNWAIIGRDALQQCQG
VLVYLP EAKRPPVILPIQAPAVLGL EHLPRPPEISQFPLNQNASRPCNTWSGRPWRAISNPTPGQEITQY
SQLKKPMEPGDSSTTCGPLTL
  
```

TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2385_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_001436

ORF Size: 1953 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone can be viewed by clicking the "ORF Nucleotide Sequence" link above. This sequence represents the NCBI reference after codon optimization for human cell expression, and retaining the same decoded protein sequence. The stop codon in the native sequence was removed to create the in-frame c-terminal fusion with a Myc-DDK tag.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NC_001436.1](#), [NP_057861](#)

RefSeq ORF: 1953 bp

MW: 71.7 kDa