

Product datasheet for **VC102141**

gag (NC_001436) Virus Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>The Viral ORF clone VC102141 represents NCBI reference of NP_057862 with codon optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAAATATTCTCACGGAGCGCAAGCCCCATTCCCCGGCCGCCACGGGGCCTTGCCGCGCACCATT
GGCTCAACTTCCTTCAGGCTGCCTATCGCCTGGAACCCGGCCCTAGTAGTTATGACTTTCACCAGCTCAA
AAAGTTCTCAAGATCGCGCTTGAGACTCCGGTGTGGATTTGCCCATAACTACTACTGCTGGCAAGT
CTGTTGCCTAAGGGCTACCCTGGTGGGTGAATGAAATTCGCACATCCTCATCCAGACACAGGCCCAGA
TTCCATCACGGCTGCCCCCCACCTCCATCCTCCTCAACCCACGATCCCCCGATAGCGACCCTCAAAT
CCCCCACCTACGTTGAACCAACCGCCCCACAGGTGCTGCTGTGCATCCTCATGGTGCACCCCCG
AACCACAGGCCATGGCAAATGAAAGATCTGCAAGCTATTAAGCAGGAGGTCAGCCAGGCAGCCCCGGCT
CACCCCAGTTCATGCAGACTATTAGGTTGGCCGTACAGCAGTTCGACCCTACAGCCAAAGATCTGCAGGA
TCTGTTGCAGTATCTTTGTTCCAGCCTGGTGGCAAGTCTGCATCACCAGCAACTGGATAGTTTGATCTCC
GAGGCTGAAACTCGAGGTATCACCGGATACAATCCACTGGCCGGCCCCCTTGAGAGTGCAAGCAAATAACC
CACAGCAGCAGGGTCTGAGAAGAGAATACCAGCAGCTGTGGTTGGCGGCATTTGCAGCTCTGCCAGGTTT
CGCCAAAGATCCAAGTTGGGCCAGCATCCTGCAGGGTCTCGAAGAACCATATCACGCCTTCGTTGAGCGC
CTGAATATAGCCCTCGACAATGGTTTGCCTGAAGGTACACCCAAGGACCCCATCTCCGCTCACTCGCCT
ACAGCAACGCTAATAAAGAGTGCCAAAACTTCTGCAAGCCCGGGGTCACTAATAAGCCCACTGGGAGA
CATGCTGCGAGCATGTCAGGCTGGACTCCAAAAGACAAAACAAAAGTTCTCGTTGTTAGCCAAAGAAA
CCTCCTCCCAACCAACCATGCTTTAGGTGTGGCAAGGCAGGGCATTGGAGTAGGGACTGTACGCCAC
GGCCACCCCAAGGCCATGCTCTGTGTCAAGACCCAACGCACTGGAAGAGAGATTGCCACGGCTCAA
GCCAACTATACCGAGGCCAGAACCTGAAGAGGACGCTCTTCTCCTTGACCTTCTGCAGACATTCCACAC
CCCAAGAACAGCATAGGTGGAGAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC102141 representing NP_057862

Red=Cloning sites Green=Tags

MGQIFRSASPIPRPRGLAAHHLNFLQAAYRLEPGPSSYDFHQLKFLKIALETPVWICPINYSLLAS
LLPKGYPRVNEILHILIQTQAQIPSRPAPPPSSSTHDPDSDPQIPPPYVEPTAPQVLPVMHPHGAPP
NHRPWQMKDLQAIKQEVSAAPGSPQFMQTIRLAVQQFDPTAKDLQDLLQYLCSSLVASLHHQQLDSLIS
EAETRGITGYNPLAGPLRVQANNPQQQLRREYQQLWLAFAALPGSAKDPASWASILQGLEEYPYHAFVER
LNIALDNGLPEGTPKDPILRSLAYSANKECQKLLQARGHTNSPLGDMLRACQAWTPKDKTKVLVQPKK
PPPNQPCFRCGKAGHWSRDCTQPRPPPGPCPLCQDPTHWKRDCPRLKPTIPEPEEEDALLLDLPADIPH
PKNSIGGEV

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NC_001436

ORF Size: 1287 bp

OTI Disclaimer: 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_057862](#)

RefSeq ORF: 1287 bp

Locus ID: 1491934

MW: 47.5 kDa