

## Product datasheet for **VC102242**

### 2 (NC\_001451) Virus Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	2 (NC_001451) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC102242 represents NCBI reference of NP_040831 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCGTAACCCACTTCTGCTGGTAACCTCTTCTTTGTGCTCTCTGCAGCGCCGTTCTGTATGACAGTT  
CTTCATACGTATACTACTACCAGTCTGCCTCCGCCCTCCGTCGGATGGCACCTCCAAGGTGGAGCTTA  
CGCAGTGGTAAATATCTCTTCTGAGTTTAAACAACGAGGGTCTAGCAGCGGCTGTACTGTAGGGTATC  
CACGGTGGGAGGGTCGTAACGCCTCCTCCATCGCCATGACCGCTCCGAGTTCTGGAATGGCTTGGTCCA  
GCTCACAGTTCTGCACTGCTCATTGTAACCTTAGTGACACTACAGTGTTGTTGACACATTGTTATAAGCA  
CGGCGGCTGCCCCCTGACAGGAATGCTGCAGCAAATCTCATCAGGGTGAGTGCTATGAAGAACGGTCAA  
CTGTTCTACAACCTTACCGTGAGCGTGGCTAAGTATCCTACCTTTCGGTCCCTCCAGTGCCTGAATAATC  
TGACCTCTGTTTACCTCAACGGCGATCTCGTGTACACCTCCAATGAGACCATTGATGTTACATCCGCGGG  
AGTCTATTTTAAAGCAGGCGGACCCATTACATATAAGGTCATGCGCGAGGTAAAGGCCCTCGCATTTTT  
GTTAATGGTACTGCTCAAGACGTGATCCTCTGCGACGGCTCACCTCGCGGGCTGCTGGCATGCCAATACA  
ATACGGGCAACTTTTCTGATGGATTCTACCCCTTCACTAACAGCTCACTGGTCAAGCAGAAGTTCATCGT  
CTACCGAGAGAATCCGTAACACTACATGTACTCCACAATTTATCTTTCACAATGAAACCGGGGCA  
AATCCCAACCCGCTGGAGTGCAGAATATCCAGACATACCAAGACCAAGACGGCTCAGAGCGGTTACTATA  
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CTCATGCAAGTTTAGGCTTGAGACTATCAATAATGGGCTGTGGTTTAAACAGCCTGAGTGTTCATTGCA  
TACGGACCACTGCAAGGGGGATGTAACAGAGTGTTCCTAAGGGTCCGGCTACTTGTGCTATGCCTATA  
GCTACGGTGGCCATCTCTGTAAAGGAGTCTACTCCGAGAGCTCGACCATAATTTTGAATGTGGACT  
CCTTGTGTACGTGACAAAATCAGGCGGGTCTCGCATTGACAGCTACAGAGCCCCCGTGATAACACAG  
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TTATTACCAATGTCACCGATAGCGCAGTGTCTACAACCTTGCAGATGCCGGCTTGGCCATCCTGGA  
TACCTCCGGATCCATTGACATCTTCGTGTTTCAAGGGGAGTACGGTCTGAACACTATAAGGTGAACCCG  
TGCGAGGACGTGAATCAGCAATTCGTGGTTTCAAGGGGAAAGCTGGTCCGAATCCTGACGCTCGCAACG



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AGACTGGGAGCCAGTTGCTTGAAAATCAATTCTATATCAAGATTACCAATGGGACGCGCCGGTTTCGCAG  
GTCAATTACAGAGAACGTTGCAAATGCCCCTACGTCTCATACGGGAAGTTTTGCATCAAACCAGACGGA  
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TACTGATCCCAAACAGCTTCAACCTTACAGTGACTGACGAATACATTAGACTAGAATGGATAAAGTCCA  
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ACCCGCTAACGCATCCAATACGCTATTGTCCCTGCTAACGGTAGAGGATTTTTTATTACGGTGAATGGT  
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GCTGGCTATCGCCTTTGCTACAATAATTTTTATCCTGATTTTGGGATGGGTGTTTTTTATGACTGGTTGT  
TGTGGTTGCTGTTGCGGCTGCTTCGGAATCATGCCCTTGATGAGCAAGTGCGGCAAAAAATCCTCATATT  
ATACCACCTTTGACAATGATGTGGTAACTGAGCAGTACCGCCCAAGAAGTCCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >VC102242 representing NP\_040831  
 Red=Cloning sites Green=Tags

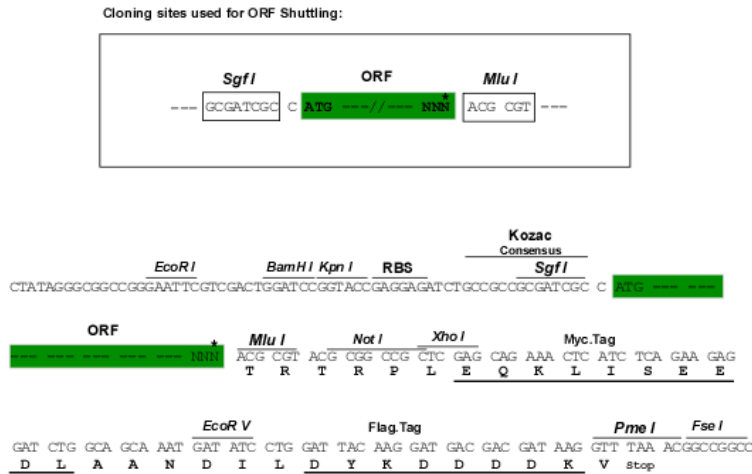
MLVTPLLLVTLCCALCSAVLYDSSSYVYYYQSAFRPPSGWHLQGGAYAVVNISSSEFNNAGSSSGCTVGII  
 HGGRVNVASSIAMTAPSSGMAWSSSQFCTAHCNFSDTTVFVTHCYKHGGCPLTGMLQQNLIRVSAMKNGQ  
 LFYNLTVSVAKYPTFRSFQCVNNLTSVYLNGLDVYTSNETIDVTSAGVYFKAGGPITYKVMREVKALAYF  
 VNGTAQDVILCDGSPRGLLACQYNTGNFSDGFYFPTNSSLVKQKFIVYRENSVNTTCTLHNFIFHNETGA  
 NPNPSPGVQNIQTYQTKTAQSGYYNFNFSFLSSFYKESNFMYSYHPSCFRLETINNGLWFNSLSVSI  
 YGPLQGGCKQSVFKGRATCCYAYSYGPPSLCKGVYSGELDHNFEGLLVYVTKSGGSRIQTATEPPVITQ  
 NNYNNITLNTCDVDYNIYGRGQGFITNVTDASVSYNYLADAGLAILDTSIDIFVYVQGEYGLNYKYVNP  
 CEDVNQQFVVSQGLVGLTSRNETGSQLENQFYIKITNGTRRFRRSITENVANCPVSYGKFCIKPDG  
 SIATIVPKQLEQFVAPLFNVTENVLIPNSFNLTVTDEYIQTRMDKVQINCLQYVCGSSLDCKRKFQYQGP  
 VCDNILSVVNSVGQKEDMELLNFYSSTKPAGFNTPVLSNVSTGEFNISLLLTPSSRRKRSLIEDLLFTS  
 VESVGLPTNDAYKNCTAGPLGFFKDLACAREYNGLLVLPPIITAEMQALYTSSLVSMAFGGITAAGAIP  
 FATQLQARINHLGITQSLLLKNQEIAASFNKAIGHMQEGRFSTSLALQQIQDVVSKQSAILTETMASLN  
 KNFGAISSVIQEIYQQFDAIQANAQVDRLITGRSSSVLASAKQAEYIRVSQQRELATQKINCEVKSQS  
 IRYSFCCNGRHVLTIPQNAPNGIVFIHFSYTPDSFVNVTAIVGFCVKPANASQYAIVPANGRGIFIQVNG  
 SYYITARDMYPRAITAGDVVTLTSCQANYVSNKTVITTFVDNDDDFDNDELSKWWNDTKHELPDFDKF  
 NYTVPIILDIDSEIDRIQGVIQGLNDSLIDLEKLSILKTYIKWPWYVWLAIAFATIIIFILILGWVFFMTGC  
 CGCCCGCFGIMPLMSKCGKSSYYTTFDNDVVTEQYRPKKS

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



\* The last codon before the Stop codon of the ORF

ACCN: NC\_001451

ORF Size: 3486 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](mailto: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\\_001451.1](#), [NP\\_040831](#)

**RefSeq ORF:** 3486 bp

**Locus ID:** 1489741

**MW:** 128.0 kDa