

Product datasheet for **VC100992**

ORF51 (NC_001348) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ORF51 (NC_001348) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ORF51
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 VC100992 represents NCBI reference of NP_040173 with codon optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCGCCCAATACCGGGCAAAGCAATGCTGCTGTCTATGCAAGCAGCACCCAATTGCTCGGGCTCTCT
ACGGCGGCGATCTTGTCTCATGGATTAACATACTCACCCAGGGATTAGTCTGGAAGTGCAGCTGGACGT
GCCAGTTAAGCTCATTAAGCCTGGGATGTCTCAAACACGCCCGTGACCGTAGTTAGGGCACCCATGGGG
TCCGGTAAGACCACCGCTCTGCTGGAGTGGCTGCAGCACGCCCTGAAGGCTGATATCAGCGTGTGGTGC
TGAGCTGCCGCCGAAGCTTTACTCAAACCTTATCCAAAGATTCAATGACGCCGGTCTGAGTGGATTTGT
TACTTATCTCACATCCGAGACCTATATCATGGTTTTAAGCGCCTGATCGTCCAATTGGAATCCCTTCAT
AGGGTGTAGTACGAAGCGATTGACTCATACGATGACTCATCTTGGATGAGGTTATGAGCGTTATCGGCC
AGCTGTATTCACCCACGATGCGGCGATTGAGTGCGGTTGACAGTCTGCTGTACCGCTGTGAATAGATG
CTCTCAGATTATAGCCATGGACGCTACTGTCAATTCCTAGTTTATTGACCTGATAAGCGGCTTGGCAGGG
GATGAGAATATCCATACTATCGTGTGTACCTATGCCGGAGTGGGTTTCAGCGGTAGAAGTTCGACAATTC
TCAGAGATATGGGCATAGACACTCTGGTGTAGAGTAATAAAGAGAAGCCCTGAACACGAAGATGTTAGAAC
TATTCATCAGCTGCGCGGGACCTTTTTCGACGAGCTCGCTCTGCGCCTGCAGTGCAGTGCACAATATATGC
ATCTTCTCTCCACACTAGCTTTTCTGAACCTGTGCGACAGTTTTGCGCCATCTTCACAGACTCTATTT
TGATACTCAACAGCACCAGACCATGTGCAACGTTAACGAATGGAAGCACTTTCCGGTCTGGTTTATAC
CACTGTTGTGACCGTGGGGCTGAGCTTCGATATGGCCACTTCCACTCAATGTTCCGCTATATAAAACCT
ATGAGCTACGGCCCCGACATGGTCTCCGTGTACCAGAGCCTCGGAAGGGTGCAGTGTCTCTGTTAACG
AGGTTCTCATGTACGTAGATGGGTCCCGCACAAAGGTGTGGTCTCTTTTTTCTCCTATGCTCCTGAACCT
CACCATCGCTAATAAGTTCAGTGGTTTTCTACACACTCAGATAACTAACAACTCTGCTGCGCATT
AGACAGCGGTGCGCTAACGCTTTTACGCGATCAAACACACTTGTCTCCAGATTCAAATATAAACACC
TCTTTGAGAGGTGCAGCCTGTGGAGCCTTGCCGATTCCATAAATATTCTGCAGACCCTTCTGGCCTCAA
TCAAATCTGGTGGTTCTTGACGGCATGGGGCCTATCACGGATGTGTCTCCCGTGCAGTCTGTGCTTTT
ATTCACGATCTGAGGCACTCAGTAACGCCGTGGCCTCCTGCATGCGATCTCTGAGACAAGACAATGATT
CTTGTCTGACCGACTTTGGTCCATCTGGCTTTATGGCTGACAACATTACGGCATTATGGAAAAGTATCT
GATGGAGTCAATCAATACGGAAGAACAATTAAGGTGTTCAAAGCCTTGGCATGTCTATCGAGCAGCCA
CGCCTTGTGAATACCGCCATCCTTGGAGCCTGTATCAGGATTCCAGAAGCCTTGGAAAGCATTGATGTGT
TCCAGAAGATCTACACACTATGCATCCGGTTGGTCCCCGACTGGACAAGACCGGCGAGTTCAGTAT
AGCCACCATTACCACTGCTCCTAATCTCACCCACTGGGAGTGTTCGGGCGCTGTGCATACATTGCC
AAAACGCTTAAGTGGAACCCTAGCACAGAGGGATGTGCTCAAGTGTGGATACTGATATCAACACCC
TGTTCAACCAACCGGAGATAGCCTCGCACAGTGAATTTTCGAGGTATGCGGTGCAACGTGACCGACGC
TAAGATCATACTGAATAGGCCGTGTGGAGAACCACCGGATTCTTGACGGGTGCCACAACCAGTGCTTT
AGACCGATTCAAACCAACATGAGTATAACATTGCCTTGTCCGCTGATCTGGGAGCAACTTTTCGGTG
CAAGGGTCACCAAGAGTACCCAAACCTTTCCCGGAGCACCGGGTCAAGAACCTGAAAAAGAAGGATT
GGAAACCCTGTTGGATTCCATCAACGTGATCGATCCGCTTGCAGGACTTATCGCCAAGTATAAACCTC
CTCATGTACAGCGCCACAGCTTTTCCAGCAGAGGTATAAAATCACCGACCCGATGGGCGAGACATG
TCTACTTCAAAGCCACAGATGCATCTTGCCCCACGCGAGGCTATGCTGCAGTTGGCTTTGTGAGA
GCTCTCCCTGGGAGCTGGCCACGAATCAACGGGGCTGTAACCTCGAATCTCTC

ACGCGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >VC100992 representing NP_040173
Red=Cloning sites Green=Tags

MSPNTGESNAAVYASSTQLARALYGGDLVSWIKHHPGISLELQLDVPVKLIKPGMSQTRPVTVVRAPMG
SGKTTALLEWLQHALKADISVLVVSCRRSFTQTLIQRFNDAAGLSGFVTYLTSETYIMGFKRLIVQLES
RVSSAIDSVDLILDEVMSVIGQLYSPTMRRLSAVDSLLYRLLNRCSQIIAMDATVNSQFIDLISGLRG
DENIHTIVCTYAGVGFSGRTCTILRDMGIDTLVRVIKRSPEHEDVRTIHQLRGTFFDELALRLQCGH
NIFSSSTLSFSELVAQFCAlFTDSILILNSTRPLCNVNEWKHFRVLVYTTVVTVGLSFDMAHFHSMFAYIKP
MSYGPDMVSVYQSLGRVRLLLLNEVLMYVDGSRTRCGPLFSPMLLNFTIANKFQWFPHTHTQITNKLCCAF
RQRCANAFTRSNTLFSRFKYKHLFERCSLWLSADSINILQTLASNQILVVLDGMPITDVSPVQFCAF
IHDLRHSANAVASCMRSLRQDNDSCLTDFGSPSGFMADNITAFMEKYLMEINTEEQIKVFKALACP
IEQRLVNTAILGACIRIPEALEAFDVFQKIYTHYASGWFPVLDKTGEFSIATITAPNLTHWELFR
RCAYIAKTLKWNPSTEGCVTQVLDTDINTLFNQHGDSLALQIFVEMRCNVTDAKIILNRPVWRTTG
FLDGGCHNQCFRPIPTKHEYNIALFRLIWEQLFGARVTKSTQTFPGSTRVKNLKKKDL
ETLLDSINVDRSACRTYRQLYNLLMSQRHSFSQQRKITAPAWARHVYFQAHQMH
LAPHAEMQLALSELSPGSWPRINGAVNFESL

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NC_001348

ORF Size: 2505 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_001348.1](#), [NP_040173](#)

RefSeq ORF: 2505 bp

Locus ID: 1487657

UniProt ID: [P09310](#)

MW: 94.4 kDa