

Product datasheet for **VC101750**

nef protein (NC_001722) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	nef protein (NC_001722) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	nef protein
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC101750 represents NCBI reference of NP_056845 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCCTCCGGATCCAAAACTGTCAAACATAGCCGGGGCTGAGAGAGAGACTGCTGAGAGCAA
GAGGGGACGGCTACGGGAAGCAGCGCAGCCAGCGGAGGGGAGTATTCTCAGTTTCAAGAAGAGTCAGG
CCGAGAACAGAATTCACCCTCTGCGAAGGCCAACATACCAGCAGGGGAATACATGAACCTCCCATGG
CGAACCAGCCACCGAAAGGCAGAAGGACCTTTATAGACAACAGAACATGGACGATGTGGATAGCGACG
ACGACGATCTCATCGGCGTCCCCGTGACACCTCGGGTTCCTCGGCAGAAATGACATATAAGCTGGCAAT
CGATATGAGCCACTTCATTAAGGAAAAAGGGGTCTCCAGGGAATGTTTTATTCAAGGAGGAGACACAGA
ATATTGGATATCTACCTCGAGAAGGAAGGGGAATCATTCCGGACTGGCAAACTACACCCATGGACCAG
GGGTGAGGTACCCAATGTACTTTGGCTGGCTTTGGAAGCTTGTGAGCGTGGAACTTTCTCAGGAAGCCGA
AGAGGACGAGGCAAATTTGTTGGTGCACCCAGCACAGACATCTAGGCATGATGACGAACACGGGGAGACA
CTCGTATGGCAGTTCGATTCTATGCTTGCCTATAACTACAAAGCTTTTACCCTGTATCCCGAGGAATTCG
GCCACAAATCCGGCCTGCCAGAAAAGGAATGAAAAGCTAAATTGAAGCCCGAGGCATACCCTACAGTGA
G

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >VC101750 representing NP_056845
 Red=Cloning sites Green=Tags

MGASGSKKLSKHSRGLRERLLRARGDYGKQRDASGGEYSQFQEESGREQNSPSCGQQYQQGEYMNSPW
 RNPATERQKDL YRQONMDDVSDDDDLIGVPVTPRVPRREMTYKLAIDMSHF IKEKGG LQGMFY SRRRHR
 ILDIYLEKEEGIIPDWQNYTHGPGVRYPMYFGWLWKLVSVELSQEAEDEANCLVHPAQT SRHDDHGET
 LVWQFDSMLAYNYKAFTLYPEEF GHKSG LPEKEWKAKLKARGIPYSE

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_001722

ORF Size: 771 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_001722.1, NP_056845
RefSeq ORF: 771 bp
Locus ID: 1724715
MW: 29.9 kDa