

Product datasheet for **VC102545**

envelope protein E (NC_001474) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	envelope protein E (NC_001474) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	envelope protein E
Synonyms:	DENV_gp1, Dengue, DENV
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 VC102545 represents NCBI reference of NP_739583 with codon optimized for human cell expression

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAGGTGTATCGGAATGAGCAACAGGGATTTTGTGAAGGCGTGTGAGGAGATCTGGGTGACATTGTCCTCGAACATGGATCCTGTGTTACTACCATGGCAAAAAATAAACCCACCCTGGATTTTGAACTCATTAA AACCGAAGCCAAGCAGCCGGCCACACTGAGGAAATACTGCATTGAAGCTAAACTGACCAACTACAACC GAATCTAGATGTCCAACCCAGGGCGAACCATCCCTCAACGAAGAACAAGATAAAAGATTCGTTTGTAAAC ATAGTATGGTTGATAGAGGATGGGGCAATGGATGCGGACTGTTCCGGAAAGGCGGGATTGTTACGTGTGC CATGTTCCAGTGCAAGAAGAACATGGAGGGAAAAGTGGTCCAACCAGAAAACCTTGAGTACACTATAGTA ATCACCCCATTCAGGGCAGGAACATGCCGTGGGAAACGACACGGGCAAAACATGGAAAGGAGATCAAGA TTACCCCTCAATCTAGTATAACAGAGGCCGAACCTGACCGGTACGGGACCCTTACCATGGAATGTTACC CCGGACCGGCCTGGACTTAAACGAGATGGTGCTCTTGAGATGGAAAATAAAGCCTGGCTTGTGCATAGA CAATGGTTTCTGGACCTGCCACTGCCCTGGCTGCCTGGCCTGATACGCAGGGCAGTAACCTGGATTCAAA AGGAGACTGTTACCTTTAAGAACCCCAACGCGAAAAAGCAAGACGTTGTGGTCTGGCTCTCAGGA GGGGGCTATGCATACCGACTGACAGGCGGACAGAAATTCAGATGTCTTCTGGCAACCTCCTCTTACT GGTCAATTTGAAATGCAGATTGAGAATGGATAAACTGCAGTTGAAGGGCATGTCTTATAGTATGTGCACTG GCAAGTTAAGGTCGTAAGAAATAGCTGAGACACAACATGGAATATCGTCATCAGGGTGCAGTATGA AGGCGACGGCAGCCATGCAAAATCCCTTCGAAATTATGGATCTGAAAAACCCACGTCGCTGGGCAGA CTTATCACCGTGAACCCATCGTTACAGAGAAAGATTACCCGTAATATTGAGGCGAGCCCTTTG GTGACTCATATACATAATCGCGCTTGAGCCTGGACAGCTCAAACCTGAACTGGTTTAAAAAAGGTTCCAG TATTGGCCAGATGTTGAAACAACAATGCGCGGCGCAAAAGGATGGCTATACTCGGAGATACAGCTTGG GACTTCGGGAGCCTTGGAGGTGATTACAGTCTATTGAAAAGCCCTGCATCAAGTATTTGGAGCAATTT ACGGCGCAGCTTTCAGCGGTGTTAGTTGGACAATGAAAATCCTGATCGGAGTAATTATTACCTGGATCGG AATGAACAGCAGATCTACAAGCCTGCCGTCACTCGTCTTGTGGGAATCGTCACTCTTTATCTTGGT GTCATGGTGCAGGCC

ACCGGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC102545 representing NP_739583

Red=Cloning sites Green=Tags

MRCIGMSNRDFVEGVSGGSWVDIVLEHGSCVTTMAKNKPTLDFELIKTEAKQPATLRKYCIEAKLTNTT ESRCPTQGEPSLNEEQDKRFVCKHSMVDRGWNGCGLFGKGGIVTCAMFRCKKNMEGKVVQENLEYTIV ITPHSGEEHAVGNDTGKHGKEIKITPQSSITEAELTGYGTVTMECSPRTGLDFNEMVLLQMENKAWLVHR QWFLDLPLPWLPGADTQGSNWIQKETLVTFKNPHAKKQDVVVLGSEQEGAMHTALTGATEIQMSSGNLLFT GHLKCRRLRMDKLQLKMSYSMCTGKFKVVEIAETQHGTIVIRVQYEGDGSPPCKIPFEIMDEKRVLGR LITVNPVIVTEKDSVNIIEAPPPGDSYIIIGVEPGQLKNWFKGSSIQMFETTMRGAKRMAILGDTAW DFGSLGGVFTSIGKALHQVFGAIYGAAFSGVSWTMKILIGVIITWIGMNSRSTLSVTLVLVGVITLYLG VMVQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NC_001474

ORF Size: 1485 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_001474.2](#), [NP_739583](#)

RefSeq ORF: 1485 bp

MW: 54.4 kDa