

Product datasheet for **VC100005**

IVa2 (AC_000017) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IVa2 (AC_000017) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IVa2
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 VC100005 represents NCBI reference of AP_000502 with codon optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAACACGGGTGCGGCTGCGGCTGCAGCACCAGCAAGACCAGCCTCAAGCACACCCAGGCC
AACGCGCCGACGAGTCTCCACTGCACAGAGACCCTGACTATGCAGATGAAGATCCTGCTCCCGTGGA
AAGACACGATCCTGGCCGTCAGGCCGAGCTCCTACTACTGCAGTACAGAGAAAGCCCCACAGCCAGCA
AAGCGCGGAGACATGCTGGATCGAGACGCTGTGGAACATGTGACGGAGCTGTGGGACAGGCTCGAACTGC
TTGGCCAGACGTTGAAAAGTATGCCTACGGCCGACGGATTGAAGCCCCTGAAGAAATTTGCCTCACTCCA
AGAAGTGTGACTGGGGGCGAGCGGTTGCTGGCTGATCTTGTGAGAGAAAATATGCGAGTGAGGGAT
ATGCTGAATGAGGTGGCGCTCTCCTGAGAGACGACGGATCATGCTCTAGTCTTAACTACCAATTGCAGC
CCGTGATTGGGTAATCTATGGCCAACCGGCTGTGTAATCCCAGCTGCTGCGCAATCTCCTTAGTTC
ACAGCTGATCTACCTACACCCGAGACGGTCTTCTTTATTGCACCACAGGTGGATATGATTCCGCCACGC
GAACTGAAGGCTTGGAAATGCAGATTTGCGAAGGAACTACGCTCCTGGACCAGACGGAACCATCATTC
CCCAGTCAGGCACTCTTCGGCCAGATTTGTGAAAATGGCCTACGACGACCTGATACTCGAACAATAATTA
CGATGTGAGTGATCCCCGCAACATCTTCGCCAGGCCCGCGCTCGAGGCCAATCGCCATCATAATGGAC
GAGTGTATGGAACCTGGGCGGCCATAAAGGGGTCTCAAAGTCTTTACGCGCTTTCCAGCAAATCC
ACGACAAATTTCTAAGTGCACCGGGTACACAGTCTGGTGGTCTTGACAACATGAATCCACGGCGAGA
CATGGCCGGTAACATCGCAAACCTCAAGATCCAGTCAAAAATGCATCTGATCTCCCCAGAATGCACCCA
TCTCAGCTTAATCGTTTCTGTAACACTTATACTAAGGGACTTCCCCTTGTATTAGTCTCTTGTGTAAGG
ACATTTTTGACATCACGCTCAGCGATCATGTTATGATTGGATCATCTATAATACCACCCCTCAGCACGA
GGCACTGCAGTGGTGTATCTTACCCTCGCGACGGGCTGATGCCAATGTATCTGAATATCCAATACAT
CTCTACCAGTGTGAAAAAATTCACCGAACCTGAACGATAGGGATCGCTGGAGTAGGGCATACCGCG
CACGAAAGACTCCTAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC100005 representing AP_000502

Red=Cloning sites Green=Tags

METRGRRPAALQHQQDQPQAHGQRAARSAPLHRDPDYADEDPAVERHDPGPSGRAPTTAVQRKPPQPA
KRGDMLDRDAVEHVTELWDRELLGQTLKSMPTADGLKPLKNFASLQELLSLGGERLLADLVRENMRVRD
MLNEVAPLLRDDGSCSSLNQYLPVIGVIYGPTGCGKSQLLRNLLSSQLISPTPETVFFIAPQVDMIPPS
ELKAWEMQICEGNYAPGPDGTIIPQSGTLRPRFVKMAYDDLILEHNYDVSDPRNIFAQAAARGPIAIIIMD
ECMENLGGHKGVSKF FFAFP SKLHDKFPKCTGYTVLVV LHMNPRRDMAGNIANLKIQSKMHLISPRMHP
SQLNRFVNTYTKGLPLAISLLLDKIDFRHHAQRSCYDWI IYNTTPQHEALQWICYLHPRDGLMPMYLNIQSH
LYHVLEKIHRTLNDRDRWSRAYRARKTPK

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: AC_000017

ORF Size: 1347 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: [AC_000017.1](#), [AP_000502](#)

RefSeq ORF: 1347 bp

MW: 50.9 kDa