

## Product datasheet for **VC100151**

### **pIVa2 (NC\_012959) Virus Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	pIVa2 (NC_012959) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	pIVa2
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 VC100151 represents NCBI reference of YP\_003038602 with codon optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGACTAGAGGGAGGCGCCCATGTCCTTTTACGACACCAGCAGGATGAGTCCGAGGCCACACCTGTA  
AACGCCCCCGCCCGGTCGCAATACACAGGAATGGCGATCACCCACGCGGCCAGAGACTCTGGA  
AGGTCATGACGCCGAAGGGCCGGTCGCCCCAGTTCATGCGCCCTGCAGTCCCAAAGCTCACAGCCCCA  
AAAAGGGGCTCTCTGCTGGATCCCGATGCAGTGAACACGTTACCGAACTTTGGGATAGGCTTGAACCTC  
TGAGCCAAACCCTGGCCAAAATGCCAATGGCAGATGGCCTTAAACCTCTGAAGAAGCTTCGCGTCTCTCCA  
GGAGTTGCTTCCCTCGGTGGGACAGGCTCCTTAGTGAGCTCGTCAGGGAGAACCTGCAGGTGAGGGAC  
ATGCTGAACCAAGTGGCCCCGTGCTGAGGGATGACGGGTGCATCTCCCTCAATTATCATTTGCAAC  
CAGTGATAGGAGTATTTACGGACTACCGGTTGCGGGAAGGCCAACTGCTGAGGAACCTGTTGAGCTC  
TCAACTTATCACACCGGCTCCCGAGACCATCTTCTTCATCGACACAGGTGGATATGATCCACCCAGC  
GAGATGAAAGCCTGGGAGATGCAATTTGTGAGGGCAACTTCGCTCCTGGCCCTGAGGGCACCATAGTTC  
CCCAGTCCGGGACCTGCGCCCCAAATTTATCAAGATGAGCTACGACGACTTGACACAGGAGCACAATTA  
TGATGTATCAGATCCCAGAAATGTTTTGCCAAAGCCGACGCTACGGGCTATAGCGATTATCATGGAC  
GAATGTATGAAAATCTGGAGGACATAAAGGTGTGTCTAAGTTTTCCACGCTTTCCCATCTAACTCC  
ATGACAAGTTTCCAAAGTGTACCGGTTACATTGTTTTGGTGGTTCTGCATAACATGAATCCGCGCCGGGA  
CCTCGGAGGAAACATTGCCAACCTGAAGATTCAAGCCAACTCCACATTATATCCCTCGGATGCATCCA  
TCACAGCTCAACCGGTTGCAAACTTATACCAAGGGATTGCCAGTGGCCATCTCACTCTTTTGAAG  
ACATTATTCAACACCATGCCAAAGGCCCTGCTATGATTGGATCATTTATAACACAACGCCAGAGCATGA  
AGCTATGCAAGTGTCTATCTGCATCCAAGAGATGGGCTCATGCCCATGTACCTGAACATTCAATCCAC  
CTCTATAGAGTGTGAGAAGATCCACAGAAGCTCAATGATAGAGAACGGTGGACCAGGGCCTATCGGG  
CCAGGAAGAACAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>VC100151 representing YP\_003038602

Red=Cloning sites Green=Tags

METRGRRPCPFQHQQDESEHTCKRPARGPPIHRNGDHPHADPETLEGHDAGRGRPSSCALQSQSSQPP  
KRGSLDDPAVEHVTELWDRLELLSQTAKMPMADGLKPLKNFASLQELLSLGGDRLLSELVRENLQVRD  
MLNQVAPLLRDDGSCISLNYHLQPVIGVIYGPTGCGKSQLLRNLLSSQLITPAPETIFFIAPQVDMIPPS  
EMKAWEMQICEGNFAPGPEGTIVPQSGTLRPFKIKMSYDDLQEHNYDVS DPRNVFAKAAAHGPIAIIIMD  
ECMENLGGHKGVSKF FFAFP SKLHDKFPKCTGYIVLVVLHNMNPRRDLGGNIANLKIQAKLHIISPRMHP  
SQLNRFANTYTKGLPVAISLLLDIIQHHAQRPCYDWIINYNTTPEHEAMQWICYLHPRDGLMPMYLNIQSH  
LYRVLEKIHRTLNDRERWTRAYRARKNK

**TR**TRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NC\_012959

ORF Size: 1344 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\\_012959.1](#), [YP\\_003038602](#)

RefSeq ORF: 1344 bp

MW: 50.7 kDa