

## Product datasheet for **VC100195**

### 100K (AC\_000018) Virus Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	100K (AC_000018) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	100K
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 VC100195 represents NCBI reference of AP\_000551 with codon optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAACCCAACCATCCTTGCCACAAGCCTGCAGGCGCCTTCACATCTGGCCCATCATCCGATGAGG  
AAGAGTCACTGACCACACCGCCGCTAGCCCTGCGACAACCACGAGTACGCTGGACGACGAGGAGGAGGA  
GTTGACGCCGCACAGGAGATGCAGGCTCAGGATAATGTAAGGCAGAGGAGATAGAGGCTGATGTGGAG  
CAGGATCCCGGATACGTGACACCTGCTGAACATGAAGAAGAATTGAAGCGCTTTATCGATCGGAAGACG  
ATGACAGGCCCGAGCACCAGGCTGACGGCGACCACCAGGAGGCTGGGATTGGCGACCAAGTGGCAGACTA  
CCTTACGGGGCTGGGGGCGAGGACGTTCTCTGAAGCACCTGCCCGCCAGTCTAATATCGTCAAGGAC  
GCCCTGCTCGATTTGACGGAAGTACCTATATCCGTGGAAGAACTTCCAGAGCTTACGAATTGAACCTCT  
TCTCCCCCACAATCCCGCAAAGCGCCAGCCCAATGGTACTTGCGAAGCTAACCCCGGCTGAATTTTTTA  
TCCCGCATTACCGTGCCAGAAGTCTGGCGACCTATCACATCTTTTTTAAAAACCAGAAAAATACCCGTC  
AGCTGTAGGGCCAATCGGACACGCGCCGACGCCCTCCTTAATCTCGGACCCGGTGGCAGACTGCCCGACA  
TCGCTTCCCTCGAAGAAGTCCCTAAGATCTTCGAGGGGCTCGGCTCCGATGAGACCCGGGACCCAAATGC  
TCTGCAGCAAGGGGAAAAATGGAATGGATGAGCACCACCTCAGCCCTCGTCGAACTCGAAGGTGATAACGCA  
AGACTCGCGGTCTGAAGCGGTCTATAGTCGTGACCCATTTTCGTTATCCCGCTGTGAATCTGCCACCTA  
AGGTGATGTCTGCCGTAATGGACCACCTTTTGATAAAGCGAGCAGGCCACTGAGCGAAAACCAAAACAT  
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ACTAACAGCCCCCGGACCTGGAGGAGCGACGCAAGCTGATGATGGCCGTTGTGCTGGTACTGATGAGAT  
TGGAATGTCTGCCCGCTTCTTCACTGACCTGAAACCCTGCGGAAGCTGGAGGAGAACCTTCATTACAC  
ATTTAGACACGGCTTCGTGCGCCAGGCATGCAAAATCAGCAACGTAGAAGTACCAACTGGTCACTAC  
ATGGGGATCCTGCACGAGAATAGACTGGGACAGAGTGTCTGCACACCACCCTCAAGGGAGAAGCGCGCA  
GGGATTACATTAGGGACTGTGTGTACCTCTACCTGTGCCATACCTGGCAAACCGGATGGGAGTATGGCA  
GCAATGCCTGGAGGAACAGAATCTGAAAGAACTCGACAAGCTGCTTCAGAGAAGCCTGAAAGCATTGTGG  
ACAGGGTTCGACGAACGGACTGTGGCATCAGATCTCGCAGACATAATATTTCCGAGAGGCTCCGGGTTA  
CTTTGAGGAATGGTCTGCCGATTTTCATGTCCCAGTCAATGCTGAACAACCTCCGATCCTCATTCTGGA  
AAGGTCCGGAATACTGCCCGCTACCTGCTGTGCGTTGCCAAGTACTTTGTTCCCTTGACATACCGGGAA  
TGTCCCGCCCGCTGTGGTCCACTGTTATCTGTTTCGGCTTGCAAACCTACCTGAGCTACCACTCTGACG  
TCATTGAGGATGTGAGCGGAGATGGCCCTCCTTGTAGTGCCATTGTAGGTGCAATCTTTGACTCCCCACCG  
CTCATTGGCGTGAATCCCAACTGTTGTCCGAAACACAGATTATTGGCACCTTCGAGCTGCAGGGGCT  
TCTTCCGAGGGAGAGGGGAGCAGTCCCGGTCAAAGTCTTAAGCTTACTCTGGACTGTGGACATCAGCCT  
ATCTCAGAAAATCCATCCTGAGGATTACCATCCATATGAGATACGCTTTTACGAGGATCAGTCTCACCC  
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AAGAGGGTACGGTGGGAGGCTGGCCAGTCCGGAAGGGTGGTGTGATGGCAGACTTGGACAGCCAGGAGGA  
GGCGGAGGCCAGCCGGGAGGACGACAATTTGGTGGTGGCCGACAGGAGGAGAGGTGGCGGCAGAAAGCA  
ATAGACGCCAGACCGTGGTATTGGTGGCGGACAAAGCAAGTGCACGACAGCAGCAGCGCTACCACTT  
GCGCTCAGGCTCCGGAGGACCGCTGCTGCCAGCAG

**ACCGT**ACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >VC100195 representing AP\_000551  
 Red=Cloning sites Green=Tags

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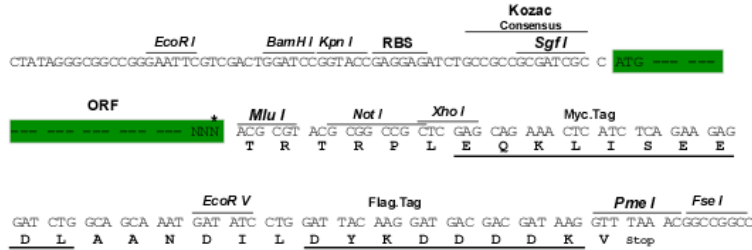
METQPSLPTSLQAPSHLAPSSDEEESLTPPPSPATTTSTLDDEEEVDAAQEMQAQDNVKAEEIEADVE
QDPGYVTPAEHEEELKRFIDREDDDRPEHQADGDHQEAGIGDQVADYL TGLGGEDVLLKHLARQSNIVKD
ALLDLTEVPISVEELSRAYELNLFSPHIPPKRQPNGTCEANPRLNFYPAFTVPEVLATYHIFFKNQKIPV
SCRANRTRADALLNLGPGARLPDIASLEEVPKIFEGLGSDETRAANALQQGENGMDHHSALVELEGDNA
RLAVLKRSIVVTHFAYPAVNLPPKVMSAVMDHLLIKRAGPLSENQNMQDPDASDEGKPVVSDQLSRWLG
TNSPRDLEERRKLMMAVVVLTVELECLRRFFTDPETLRKLEENLHYTFRHGFVRQACKISNVELTNLVSY
MGILHENRLGQSVLHTTLKGEARRDYIRDCVYLYLCHTWQTMGMVWQQCLEEQNLKELDKLLQRSLKALW
TGFDETVASDLADIIFPERLRVTLRNLPDFMSQSMNNFRSFILERSGILPATCCALPSDFVPLTYRE
CPPPLWSHCYLFRLANYLSYHSDVIEDVSGDGLLECHCRCNLCTPHRSLACNPQLLSETQIIGTFELQGP
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KSRQEFLLKKGSGVYLDPQTGEELNTRFPQDVSPRKQEAEGAADAPRGYGGRLGQSGRGGDRLGQPGR
GGGQPGGRQFGGRRRGGRRGGRSNRRQTVVIGGGDKQVPRQQHGYHLRSGSGGPAQAQQ
  
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TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** AC\_000018

**ORF Size:** 2487 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\\_000018.1, AP\\_000551](#)

**RefSeq ORF:** 2487 bp

**MW:** 92.0 kDa