

Product datasheet for **VC102286**

PB1 (NC_006503) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PB1 (NC_006503) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PB1
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 VC102286 represents NCBI reference of YP_145804 with codon optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGACCTGGTCGGAGGCCCTCTACTGGAGAGGACAGCCTGATTTCCATGTCCAACGACGTGTCT
GCCTCTACGTCTACGACGGGCCATGAGAGTCTTCAGCCAGAACGCCCTGATGCCAACCTCCAATCCGT
CAAACGGTCCGACCAGTTTCAGCAAGGGCAAGACAAAACGGTTCATCATTGATCTGTTCCGAATGAAACGG
ATGTGGGACATCGGCAACAAGCAACTGGAGGATGAGAACCTGGATGAAACAGTGGGAGTGGCCGACCTGG
GCCTCGTCAAGTACCTCATCAACAACAAGTACGATGAAGCCGAGAAGACAAGCCTGCGGAAGTCCATGGA
GGAGGCCCTTTGAGAAGTCCATGAACGAAGAGTTCGTGGTCTGAACAAAGGCAAGTCCGCCAACGACATC
ATTTCCGACACCAACGCCATGTGCAAGTTTTCGCTCAAAAACCTGGATCGTCGCCACCGGGTTTCGGGGCC
GGACCATGAGCGACCTCATCGAGCACCCTCCGGTGCATGCAGGGCAAGCAGGAGGTCAAGGGCTACAT
CTGGAAGCACAAAGTACAACGAGCGGCTGAAGCGGAAGCAGCTGTCCAAAGAGGAGGTCAAGTTCCGACCGG
GAGGAGTACACCAGCCGGTCTTCCGGCTGCTCAGCTTCTGAAAAACAGCGAACGGACCAAGCTGGAGC
CTCGGGCCGTGTTACCGCTGGCGTGCCTTGGCGGGCCTTCATCTTCGTCTCGAGCAAAACATGCTGGT
CGTGAACAAGCTGGACCCCAACTCCGTGATTTGGATGGGACGACGCCAAGATCAACACCACCAACAGC
CGGATCAAGGAGATCGGCATGAAGAACCAGGGGCAACCTCTGACCTGACCGGCGACAACAGCAAGT
ACAACGAGAGCATGTGCCAGAGGTGATGATGGTGTCTCCGGGAGCTGGGCATCAAGGGACCCATGCT
CGAGGTGCTGGACTACGCCCTCTGGCAGTTCAGCCAGAAGTCCGTCAAGCCCGTGGCCCCCATCAAGAAG
CGGACCGGCAAAAGCACCGTGGTGTATCAAGGCCGACAGCGTGAAGGAGTGCCGGGACGCCTTCAACGAAA
AGGAGCTCGAGCTGATCCAGGGCGTGGAGTGGATGGACGACGGCTTCGTGCGGGTCCGGCGGGGCATGCT
GATGGGCATGGCCAACAACGCCCTTCACTACCGCCAGCACCATCGCCAGCAGCTTCAGCTTACCCCCGAG
GCAGTGTACACCCTGCAGAGCAGCGACGACTTCGTACCGGCTCCTGCGGACGGGACGTGCAGCAGCCCC
GGCAGCGGCTCGAGATGGCCCTCAAGGTCAGCAAGGCCGCGGCCTGAATGTGAGCCAGAAAAAGAGCTT
CTACGTCGAGGGCACCACATTCGAGTTCAACTCCATGTTCTGCGGGACGGGAAGGTGATGGCCAACGGC
GGCAACTTCGAAAACATGACCGTGCCCGGGGGCCTCGGCCCTCCACCGACCTGTTCTGCTGTTGGCAAGC
AGGCCCGGAACAGCATGCTGCGGGCAACCTGAGCTTCAGCCAGGCCATGGAGATGTGAAGATCGGCAT
CACCAATGTGAAAAGGTGTACTATGGGAACCGGAAGTACCAGGAGCTGAAGAACGAGATTCGGGAGAAG
TGGCGCGAGGAGACCATGAGCATCCCCGAATCCATGGGCGGCGACCGGAAGCCCCGGCCCTGGGAGCTCC
CCCAGAGCTTCGACGGCATCGCCCTCAAGGAAGCCGTCAACCGGGGCCACTGGAAGGCCGCCAAGTACAT
CAAATCTGCTGCAGCATCGAGTTCGACGAGGAGGGCGACCAAGTCTGGGACACAAGCAAGACCGCCCTG
GTCGTGATCCGGAAGAACGAAACCGACATGCGCGGGCGGACCGTGAAGACCCGGAACCCCAAGGACAAGA
TCTTCAACGACGCCATGAACAAGGCCAAGCGGATGTACGAAACCGTGGTGGACCGGAACCCCTGCTGGG
CCTCAAGGGGAAAGGCGGACGGCTCACCGTCAAGGACCTGAAAGCCAGAAAGCTGATCGACGAGGTGAG
GTGGTCAAGAAGAAGAAGCACGTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >VC102286 representing YP_145804
Red=Cloning sites Green=Tags

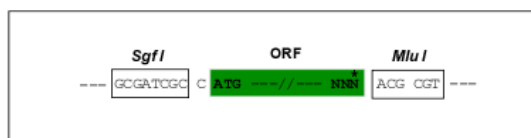
METLVGGLLTGEDSLISMSNDVSCLVYVDGPMRVFSQNALMPTLQSVKRSQDFSKGKTKRFIIDLFGMKR
 MWDIGNKQLEDENLDETVGVADLGLVKYLINNKYDEAEKTSLRKSMEEAFKSMNEEFVVLNKGKSANDT
 ISDTNAMCKFCVKNNIVATGFRGRMSDLIEHHFRMQGQKEVGKGIWKHKYNERLKRKQLSKEEVKFD
 EEYTSRSFRLLSFLKNSERTKLEPRAVFTAGVPWRAFI FVLEQTMLVVNKLDPNSVIWMGSDAKINTNS
 RIKEIGMKNQGQTLVTLTGDNSKYNESMCPEVMVFLRELGIKGPMLEVLDYALWQFSQKSVKPVAPTKK
 RTGKSTVVIKADSVKECRDAFNEKELELIQGVEMDDGFRVRRGMLMGMANNAFTTASTIASSSFSTPE
 AVYTLQSSDDFVTGSCGRDVQHARQRELMALKVSKAAGLNVSQKKSFYVEGTTTEFNSMFVRDGKVMANG
 GNFFENMTVPGGLGPSTDLFVVGKQARNMSMLRGNLSFSQAMEMCKIGITNVEKVVYGNRKYQELKNEIREK
 CGEETSMSIPESMGGRDKPRPWPQLPSQFDGIALKEAVNRGHWKAAKYIKSCCSI EFDDEEQSDWDTSKTAL
 VVIRKNETDMRRRTVKTRNPKDKIFNDAMNKAKRMYETVVDNRNPLLGLKGKGGRLTVKDLKARKLIDEVE
 VYKKKHHV

TRTRRLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Kozac Consensus

EcoRI BamHI KpnI RBS SgfII

CTATAGGGCGGCGGGGAATTCTGTCTGCACGTCGGTCCGGTACC GAGGAGACTCTGCCGCCGCATCGC C ATG

ORF

MluI NotI XhoI Myc.Tag

T A C G T A C G C G C G C T C G A G C A G A A A C T C A T C A T C A G A A G A G
T R T R P L E Q K L I S E E

GAT CTG GCA GCA AAT GAT ATT CTG CAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACCGGCCGGCO D L A A N D I L D Y K K D D D D K V stop

EcoRV Flag.Tag PmeI FseI

* The last codon before the Stop codon of the ORF

ACCN: NC 006503

ORF Size: 2124 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_006503.1](#), [YP_145804](#)

RefSeq ORF: 2124 bp

Locus ID: 3170817

MW: 80.5 kDa