

## Product datasheet for **VC102281**

### **PB2 (NC\_006505) Virus Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PB2 (NC_006505) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PB2
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 VC102281 represents NCBI reference of YP\_145807 with codon optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACTTCATCAGCGAAAAATACCATCAGCGACAAAACCTACCCTCGAAGAGCTGAAAAATGCCACTCTGT  
TTCAAGTCACTAAAGTGGACGACCGGGATTGCCTGCGGGCCAGACGGATCTGCAACGCCCCCAAGGGGCA  
TTGGGCCGGACTCATGGAGAAAGCCAAAGCAATGGGGACCCACCGAGGAGGAGAAGGACGAGCTCAAG  
AAGATCGTCGAGAGCTACAACACCGTGAGCGTCTCGCGTGAGCAAAATCCGAAGCGCAACCGGACCCC  
GGCTCGTGTCCAGCCTCAAGGGCCTGAAGAACCTGCTGCCCGCGTCAACCCCAAGACCTGCAGGAGAC  
ACTGCTGGTGGGCGCCCCTGTCCAGCACCAGCCACCCTGAGGAGTATTGGAATGTGTGCCGGGCC  
GCTGTCCGAGCCTCCATGGCAGCGCCAAGATCAACATGTCCAGAAAGTGGTATGGGCGCCAGCGTCA  
TCGGCTGGGACAGCTCAATCAGAGCGGCCCGCGGTGTACTTCTCAACACCAAGGAGATTGTGACCGC  
CGAAGGCAAGGTGGACGAGACCCGGGGCCCTCGAGCGGACCTCCGCCCCCTCATGCGGGATATCTCC  
CGGCTGATCCAGGAAACCATCGAGGAGTTCGAGACCGGGCGGAGATCCCTCCTTTAGCGTGGCGAGCGAGG  
GCGGCTCCAAGATTGAAGGGCGGATCGCCTTCTCCCTGCACTCCGAGGTCTCCACCCTGAAGATGCGGAT  
CGCACTGGAGCAGAAGCTGGCCAAATACGAGTACATGGGCGAGAACCTCCTCACCTCGTGAAGAACC  
AGCATCGACCGGATGCAGCCGACAGCGCCATGATGGGCAAAATGGTGTCTGAGAGCCTGCGGACCCATA  
CCGTGACGAGCGAGCAGCTCAACGGCCGGATGATCACCGTGCAGAGCCAGGGGCTCGAAACCATTGCAAT  
CAGCAGCCCTTCGACGTGGAGTACGACGATGGTACGTCTTACCCGGATGAAAGGCAACTTCGTGGCT  
GTGGGCGGGACTACAAGGGCGCCATCCTGTGCTTCCGGGAGGGGCGAGGACCTTCTTCAGCGCCGGG  
GCAATTGGAGCGCCTCATGAAAAAGTGCCTGGTTCGAAATGCGGCTCTGCCCTGTCTACAGTGCAC  
CTGGCAGGACTACCCGACAAGAAGAGCCTGTACGAGAAAGCCACCTTTGAGGCCAAGCAGATCGTGTT  
GCCATGGGCGAGAACCAGCGCTGGACATCCGGGTGAACACCGACGGCGAGATCGGCGACAAGGGCATCA  
GCCTGCTGACCCGGGAGCGGGAGGACAAGTACATGAGCAAGGTGTCTACGAGTCCGGGTGGTGAAGCG  
CAAGCTGGTGTGGGCTCGACAAAATGAGCCGGTTCGCAAGGGCAACCTGGAGGTGTCGGGAGAAAG  
GGGACGACACCTCCCAAAGCGACAGCTTCTACGAGGGCGTGTGCAAGTCCGACGATGATTGGCACA  
CAATGAAAGCCTGAAGCAGCAGCTGCAGGGCCCGTGGGATCTGGCGGCCTCCGGCTCTCCGCAAT  
GGAGCGGTGCATGAAGCGGGCCAGTCCAAAACCGTGTGCTCCGCCCTCCGCCGTTACACCTCCAGAAGATG  
ATGGAGAAGATGGCCACCGGGCGGGAGGTCTCAAAGTACTCCCTGATCATCGTATGCGGTGCTGCATCG  
GCTTTACAGCGAGGCCAACAAGCGGGCCCTGACCAACATCAGCGGCACCGGGTACTACATCAGCGTGGC  
CCAGCCCACCGTGGTGAAGCTGGCCGGCGAGTGGCTCATCACCCCGTCCGCCGGAGCAAGACCGGGGAA  
GTGCAATACGTGACGCGCAAGCTGAAGAAGGGGATGACCACCGCAAGCTCGAGCTCATCAAGAAGGCCG  
ACCGGTCCGACCTCGACAACCTCCCGAGCCAAGCGCCGACGAGCTGTGCGGGAAGGCACCATTGTGCT  
GATGCAGATCGGCAAGGACAAAATGGCTGTCCGGGTGCGGACCGGCGACCGGGGTCGGGACCGGACACA  
GACATTCAGCGGGCCGAGGCAAGTCCCAGTTCGAGAAGGAGGACCTCATGGACGAGTACGGGGT

**ACGCGT**ACGCGGCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >VC102281 representing YP\_145807  
 Red=Cloning sites Green=Tags

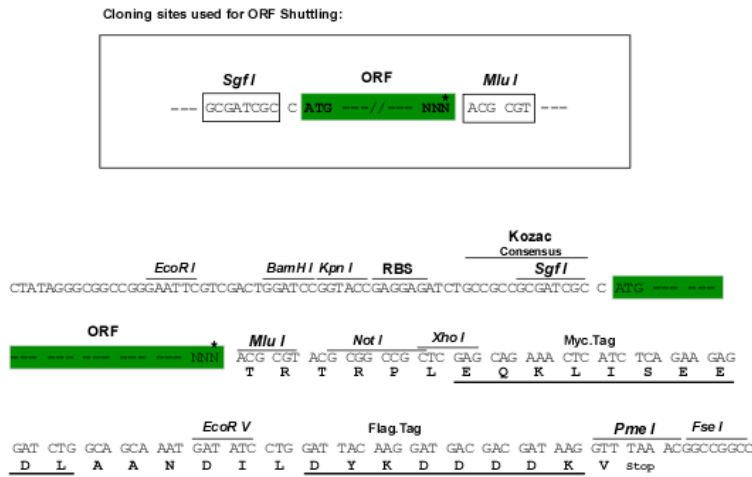
MDFISENTISDKTTLEELKNATLFQVTKVDDRDCLRARRICNAPKGHWAGLMEKAKAMGDPTEEEKDELK  
 KIVESYNTVSVLGVSKSEGATGPRLVSSLKGLKNLLPGVNPRTLQETLLVGAPCPSTEPTTEEYWNVCRA  
 AVGASMGSAKINMSQKVVMGASVIGWQQLNQSGPGVYFLNTKEIVTAEGKVDETRGPLERTSAPLMRDIS  
 RLIQETIEEVETGGDPSFSVRSEGGSKIIEGRIAFSLHSEVSTLKMRIALEQKLAKYEYMGENLLTLVKNT  
 SIDRMQPD SAMMGKMLESLRHTHTVSSEQLNGRMITVQSQGLEITAISSPFDVEYDDGYVFRMKGNFVA  
 VGRDYKGAILCFREGQGTFFSGRGNWSGLMEKCLVEMRLCPCFYCTWQDYPDKSLYEKATFEAKQIVF  
 AMGENTGVDIRVNTDGEIGDKGISLLTREREDKYMSKVSYEYCRVVSGLVMGLDKMSRVAKGNLEVVREK  
 GDDTSQSDSFYEGVLQVGSMTGTTMESLKQQLQGPVGIWRASGVSAMERC MKRGQSKT VVASARYTFQKM  
 MEKMATGREVSKYSLIIVMRCCIGFTSEANKRALTNISGTGYIISVAQPTVVKLAGEWLITPVGRSKTGE  
 VQYVS AKLKKGMTTGKLELIKADRSDLNFPEPSADELLREGTIVLMQIGKDKWLCRVRTGDRRVRTDT  
 DIQRAEAKSQVEKEDLMDEYGV

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



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

**ACCN:** NC\_006505

**ORF Size:** 2166 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_006505.1](#), [YP\\_145807](#)

**RefSeq ORF:** 2166 bp

**Locus ID:** 3170818

**MW:** 79.9 kDa