

## Product datasheet for **RG209225**

### **DPEP3 (NM\_022357) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DPEP3 (NM_022357) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPEP3
Synonyms:	MBD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209225 representing NM\_022357  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATCCGGACCCATTGTGCGCCTCTGCCATCGCCTGCTCCTCCAGGCTCCCGGGCCGACCCCGC  
 GCAACATGCAGCCACGGGCCGCGAGGGTTCCTCGCGCTCAGCCGGCGGTATCTCGGGCTCTGCTGCT  
 CCTGCTACTGCTGCTGCTGCTGCGGCAGCCGTAACCCGCGGGAGACCACGCCGGGCGCCCCAGAGCC  
 CTCTCCACGCTGGGCTCCCCAGCCTCTTACCACGCCGGGTGTCCCGAGCGCCCTACTACCCAGGCC  
 TCACTACGCCAGGCACCCCAAAACCTGGACCTTCGGGGTGCAGCGCAGGCCCTGATGCGGAGTTTCCC  
 ACTCGTGGACGGCCACAATGACCTGCCCGAGTCTGAGACAGCGTTACAAGAATGTGCTTCAGGATGTT  
 AACCTGCGAAATTCAGCCATGGTCAGACCAGCCTGGACAGGCTTAGAGACGGCCTCGTGGGTGCCAGT  
 TCTGGTCAGCCTCCGCTCATGCCAGTCCAGGACCAGACTGCCGTGCGCCTCGCCCTGGAGCAGATTGA  
 CCTCATTACCGCATGTGTGCCTCTACTCTGAACTCGAGCTTGTGACCTCAGCTGAAGGCTGAACAGC  
 TCTCAAAAGCTGGCCTGCCTCATTGGCGTGGAGGGTGGTCACTCACTGGACAGCAGCCTCTCTGTGCTGC  
 GCAGTTTCTATGTGCTGGGGTGCCTACCTGACACTTACCTTCACTGCAGTACACCATGGGCAGAGAG  
 TTCCACCAAGTTCAGACACCACATGTACACCAACGTCAGCGGATTGACAAGCTTTGGTGAGAAAAGTGA  
 GAGGAGTTGAACCGCCTGGGCATGATGATAGATTTGCTCCTATGCATCGGACACCTTGATAAGAAGGGTCC  
 TGGAAAGTGTCTCAGGCTCCTGTGATCTTCTCCACTCAGTCCAGAGCTGTGTGTGACAATTTGTTGAA  
 TGTTCCCGATGATATCCTGCAGCTTCTGAAGAAGAACGGTGGCATCGTATGGTACACTGTCCATGGGG  
 GTGCTGCAGTCAACCTGCTTGTAACTGTCCACTGTGGCAGATCACTTTGACCACATCAGGGCAGTCA  
 TTGGATCTGAGTTCATCGGGATTGGTGGAAATTATGACGGGACTGGCCGTTCCCTCAGGGCTGGAGGA  
 TGTGTCCACATACCCAGTCTGATAGAGGAGTTGCTGAGTCGTAGCTGGAGCGAGGAAGAGCTTCAAGGT  
 GTCCTTCTGTGAAACCTGCTGCGGGTCTTCCAGACAAGTGAAAAGGTGAGAGAGGAGAGCAGGGCCAGA  
 GCCCGTGGAGGCTGAGTTTCCATATGGCAACTGAGCACATCCTGCCACTCCCACCTCGTGCCTCAGAA  
 TGGACACCAGGCTACTCATCTGGAGGTGACCAAGCAGCCAACCAATCGGGTCCCTGGAGGTCTCAAAT  
 GCCTCCCATACCTTGTCCAGGCCTTGTGGCTGCTGCCACCATCCCACTTCACCAGTGGCTCTGC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG209225 representing NM\_022357  
 Red=Cloning site Green=Tags(s)

MIRTPLSASAHRLLLPGSRGRPPRNMQPTGREGRALSRRYLRLLLLLLLLLLLLLQPVTRAETTPGAPRA  
 LSTLGSPSLFPTPGVPSALTTPLTTPGTPKTLDLRGRAQALMRSFPLVDGHNDLPQVLRQRYKNVLQDV  
 NLRNFSHGQTSLDRLRDGLVGAQFWSASVSCQSQDQTAVRLALEQIDL IHRMCASYSELELVTSAEGLNS  
 SQKLAELIGVEGGHSLDSSLVLRFSFYVLGVRYLTLTFTCSTPWAESSTKFRHHMYTNVSGLTSFGEKVV  
 EELNRLGMMIDL SYASDTLIRRVLEVSQAPVIFSHSAARAVCDNLLNVPDDILQLLKNNGGIVMVTLSMG  
 VLQCNLLANVSTVADHFDHIRAVIGSEF IGIGGNYDGTGRFPQGLEDVSTYPVLIEELL SRSWSEELQG  
 VLRGNLLRVFRQVEKVRRESRAQSPVEAEFPYQLSTSCHSHLVPQNGHQATHLEVTQPTNRVWPWRSSN  
 ASPYLVPGLVAAATIPTFTQWLC

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_022357

ORF Size: 1539 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 aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM\\_022357.4](#)

RefSeq Size: 1756 bp

RefSeq ORF: 1542 bp

Locus ID: 64180

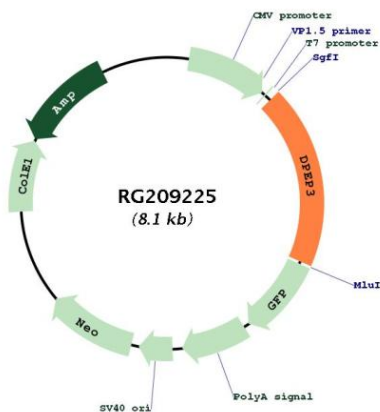
UniProt ID: [Q9H4B8](#)

Cytogenetics: 16q22.1

Protein Families: Druggable Genome, Protease

**Gene Summary:** This gene encodes a membrane-bound glycoprotein from the family of dipeptidases involved in hydrolytic metabolism of various dipeptides, including penem and carbapenem beta-lactam antibiotics. This gene is located on chromosome 16 in a cluster with another member of this family. Alternatively spliced transcript variants that encode different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG209225