

Product datasheet for **MG215246**

Dnpep (NM_001110831) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnpep (NM_001110831) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dnpep
Synonyms:	AA407814
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG215246 representing NM_001110831
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGATGGCTATGAACGGCAGGGCTCGGAAAGAGGCCATCCAGGCCACAGCCCAGAGACTCCTGAAGT
 TCGTGAACCGGAGTCCCTCTCCTTTCCACGTCGTGGCTGAGTGCCGCAGCCGCCTCTCCAGGCTGGCTT
 CCGTGAACCAAGGAAACAGAGGGCTGGGATATCGTACCAGAAAACAAGTACTTCTTAACCAGAACTCC
 TCCTCCATCATTGCTTTTGTGTGGGGGCCAGTATGTTCTGGCAATGGCTTCAGCCTCATTGGGGCCC
 ACACGGACAGTCCCTGTCTCAGGGTAAACGCAAATCGCGCCGAAGCCAGGTGGGCTACCACCAGGTCCG
 TGTTGAGACCTACGGCGGTGGGATCTGGAGCACATGGTTCGACCGGGACCTGACCTTGGCTGGACCGCTC
 ATTATCAAGTGCCTACCTCAGGCCGGCTGGAGCAGAGGCTCGTCCATATAGAACGGCCCATCTGCGCA
 TCCACATCTGGCCATCCATCTGCAGCGAAATATCAATGAGAATTTGGGCCAACAGAGATCCACCT
 AGTCCCTATTCTGCCACAGCAGTTCAGGAAGAGCTGGAGAAAGGGACTCCTGAACCAGGGCCTCTCGGT
 GCCACTGATGAGCGGCACCACTCGGTCCCTCATGTCCCTGCTCTGTACCATCTGGCCTGAGTCCCTGACA
 GCATCATGGAGATGGAGCTCTGCCTGGCAGACACCCAGCCTGCAGTCTGGTGGAGCCTATGAAGAGTT
 CATCTTCGCTCCTCGACTGGACAATCTGCACAGCTGCTTCTGTGCCCTGCAGGCATTGATTGATTCTGT
 GCATCCCTGCCTCTCTGGCCAGGGATCCACATGTGCGCATGGTCACTCTACGACAATGAAGAGGTGG
 GGTGAGAGAGTGCACAAGGAGCACAGTCCCTGTGACGGAGCTGATACTACGGCGCATCTCAGCCTCACC
 TCAGCGTCTGACTGCCTTCGAGGAAGCCATACCTAAGTCTTCATGATCAGTGCAGACATGGCCATGCT
 GTGCACCCAACTACTCGGACAAGCATGAAGAAAACACCGGCCCTTTGTTCCATAAGGGTCTGTGATCA
 AGGTGAACAGCAAGCAGCGCTACGCCTAATGCAGTGTCTGAGTCCATGATTGAGAGGTGGCCCA
 AGTTGGGGTGCCCTGCAGGACCTCATGGTCAGGAATGACTCCCGTGTGGTACCACCATTGGACCTATC
 TTGGCTTCTCGACTGGGCTTCGGGTGCTGGACTTAGGCAGCCCCAACTGGCTATGCACTCTATCCGGG
 AGACAGCTGTACCAGTCTCCAGACCCTCACCTTTTCAAGGGCTTCTTTGAGCTGTTCCCTTC
 TGAAGCCGGAACCTCTTAGTGGAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG215246 representing NM_001110831
 Red=Cloning site Green=Tags(s)

MQMAMNGRARKEAIQATARELLKFVNRSPSPFHVVAECSRLLQAGFRELKETEGWDIVPENKYFLTRNS
 SSIIAFVGGQYVPGNGFSLIGAHTDSPCLRVKRSRRSQVGYHQVGVETYGGGIWSWFDRDLTLAGRV
 IIKCPTSGRLEQRLVHIERPILRIPHLAIHLQRNINENFGPNTEIHLVPILATAVQEELEKGTPEPGLG
 ATDERHHSVLMSELLCTHLGLSPDSIMEMELCLADTQPAVLGGAYEEFIFAPRLDNLHSCFCALQALIDSC
 ASPASLARDPHVRMVTLYDNEEVGSESAQGAQSLLTELILRRISASPQRLTAFEEAIPKSFMISADMAHA
 VHPNYSKHEENHRPLFHKGPIKVNKQRYASNAVSESMIREVAGQVGVPLQDLMVRNDSPCGTTIGPI
 LASRLGLRVLDLGSPLAMHSIRETACTGVLQTLTLFKGFFELFPSVSRNLLVD

SGP**TRRRLE** – GFP Tag – V

Restriction Sites:

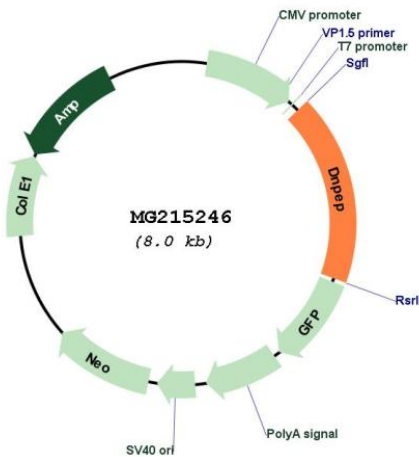
Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001110831

ORF Size: 1425 bp

OTI Disclaimer: 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_001110831.1](#), [NP_001104301.1](#)

RefSeq Size: 1930 bp

RefSeq ORF: 1428 bp

Locus ID: 13437

UniProt ID: [Q9Z2W0](#)

Cytogenetics: 1 C4

Gene Summary: Aminopeptidase with specificity towards an acidic amino acid at the N-terminus. Likely to play an important role in intracellular protein and peptide metabolism (By similarity).
[UniProtKB/Swiss-Prot Function]