

Product datasheet for **RG222109**

DPEP2 (NM_022355) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPEP2 (NM_022355) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPEP2
Synonyms:	MBD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222109 representing NM_022355
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGCCCTCCGGCCTCGAGGGTCCCGGCACGTTTGGTCGGTGGCCTCTGCTGAGTCTGCTGCTCCTGC
 TGCTGCTGCTCCAGCCTGTAACTGTGCCTACACCAGCCAGGCCCCAGAGCCCTACCACGCTGGG
 CGCCCCAGAGCCACACCATGCCGGGCACCTACGCTCCCTCGACCACACTCAGTAGTCCCAGCACCCAG
 GGCCTGCAAGAGCAGGCACGGGCCCTGATGCGGGACTTCCCGCTCGTGGACGGCCACAACGACTGCCCC
 TGGTCTAAGGCAGGTTTACCAGAAAGGGCTACAGGATGTTAACCTGCGCAATTTAGCTACGGCCAGAC
 CAGCCTGGACAGGCTTAGAGATGGCCTCGTGGGCGCCAGTTCTGGTCAGCCTATGTGCCATGCCAGACC
 CAGGACCCGGATGCCCTGCGCCTCACCTGGAGCAGATTGACCTCATACGCCGATGTGTGCCCTCTATT
 CTGAGCTGGAGCTTGTGACCTCGGCTAAAGCTCTGAACGACACTCAGAAATTGGCCTGCCTCATCGGTGT
 AGAGGGTGGCCACTCGCTGGACAATAGCCTCTCCATCTTACGTACCTTACATGCTGGGAGTGCCTAC
 CTGACGCTCACCCACACCTGCAACACACCTGGGCAGAGAGCTCCGCTAAGGGCGTCCACTCCTTCTACA
 ACAACATCAGCGGGCTGACTGACTTTGGTGAGAAGGTGGTGGCAGAAATGAACCGCTGGGCATGATGGT
 AGACTTATCCCATGTCTCAGATGCTGTGGCAGCGGGCCCTGGAAGTGTACAGGCACCTGTGATCTTC
 TCCCACTCGGCTGCCCGGGTGTGTGCAACAGTGTCTCGGAATGTTCTGATGACATCCTGCAGCTTCTGA
 AGAAGAACGGTGGCGTCGTGATGGTGTCTTTGTCCATGGGAGTAAACAGTGCAACCCATCAGCCAATGT
 GTCCACTGTGGCAGATCACTTCGACCACATCAAGGCTGTATTGGATCCAAGTTCATCGGGATTGGTGA
 GATTATGATGGGCGCGCAAATTCCTCAGGGGCTGGAAGACGTGTCCACATACCCGGTCTGATAGAGG
 AGTTGCTGAGTCGTGGCTGGAGTGAGGAAGAGCTTCAGGGTGTCTTTCGTGAAACCTGCGGGTCTT
 CAGACAAGTGAAAAGGTACAGGAAGAAAACAAATGGCAAAGCCCTTGGAGGACAAGTCCCGGATGAG
 CAGCTGAGCAGTTCCTGCCACTCCGACCTCTCACGTCTGCGTCAGAGACAGAGTCTGACTTCAGGCCAGG
 AACTCACTGAGATTCCTATCACTGGACAGCAAGTTACCAGCCAAGTGGTCAGTCTCAGAGTCTCCCC
 CCACATGGCCCCAGTCTTGCAGTTGTGGCCACCTTCCAGTCTTATTCTGTGGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222109 representing NM_022355
 Red=Cloning site Green=Tags(s)

MQPSGLEPGTFGRWPLLSLLLLLLLLQPVTCAYYTPGPPRALTTLGAPRAHTMPGTYPSTLSSPSTQ
 GLQEQRALMRDFPLVDGHNDLPLVLRQVYQGLQDVNLRNFSYQTSLDRLRDGLVGAQFWSAYVPCQT
 QDRDALRLTLEQIDLIRRMCASYSELELVTSAKALNDTQKLAQLIGVEGGHSLDNSLSILRTFYMLGVRY
 LTLTHTCNTPWAESSAKGVHSFYNNISGLTDFGEKVVAEMNRLGMMVDLSHVSDAVARRALEVSQAPVIF
 SHSAARGVCNSARNVPDDILQLLKNGGVVMVSLSMGVIQCNPSANVSTVADHFDHIKAVIGSKFIGIGG
 DYDGAGKFPQGLEDVSTYPVLEIELLSRGWSEELQGVLRGNLLRVFRQVEKVQEENKWQSPLEDKFPDE
 QLSSSCHSDLSRLRQRQSLTSGQELTEIPIHWTAKLPKWVSSESSPHMAPVLAVVATFPVLILWL

TRTRPLE - GFP Tag - V

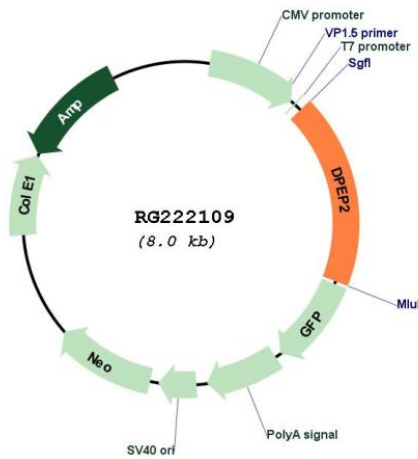
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022355

ORF Size: 1458 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:	<ol style="list-style-type: none">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_022355.4
RefSeq Size:	1781 bp
RefSeq ORF:	1461 bp
Locus ID:	64174
UniProt ID:	Q9H4A9
Cytogenetics:	16q22.1
Protein Families:	Druggable Genome, Protease
Gene Summary:	DPEP2 belongs to the membrane-bound dipeptidase (EC 3.4.13.19) family. These enzymes hydrolyze a variety of dipeptides, including leukotriene D4, the beta-lactam ring of some antibiotics, and cystinyl-bis-glycine (cys-bis-gly) formed during glutathione degradation (Habib et al., 2003 [PubMed 12738806]).[supplied by OMIM, Mar 2008]