

Product datasheet for **MG208197**

Entpd1 (NM_009848) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Entpd1 (NM_009848) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Entpd1
Synonyms:	2610206B08Rik; AA408691; Cd39; NTPDase-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208197 representing NM_009848
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGATATAAAGATTCTAAGTGGAAGAGATTTTGCTCCAAAATATTCTGATCATCTTGGTTTCA
 CCTCTATCTTGGCTGTGATAGCTTTGATTGCTGTGGGACTGACCCAGAACAACCTTTGCCAGAAAATGT
 TAAGTATGGGATTGTGTTGGATGCGGGGTCGTCTCACACCAACCTGTACATCTACAAGTGCCAGCCGAG
 AAGGAGAATGACACAGGGGTGGTGCAGCAGTTAGAGGAATGCCAAGTGAAGGTCTGGAATCTCAAAAT
 ATGCTCAGAAAACAGATGAAATCGGTGCATACCTGGCCGAATGCATGGAAGTGTCCACCGAACTGATACC
 AACATCCAAGCATCACCAGACTCCTGTCTACCTGGGAGCCACAGCAGGCATGCGCTTGCTTAGAATGGAA
 AGTGAACAATCGGCAGACGAGGTCTGGTGCAGTGTCAACGAGCCTTAAGGGCTACCCCTTTGACTTCC
 AGGGTGCCAAGATCATCACGGGACAAGAGGAAGGTGCCTATGGGTGGATTACTATTAACATCTGCTGGG
 CAGATTCCTCAGAACAGAGTTGGCTAAGCCTCATCTCAGACAGTCAGAAACAGGAAACCTTTGGCGCT
 TTGGATCTCGGGCGAGCCTCCACACAAAACACCTTCGTGCCCCAAAACAGCACTATAGAGTCCCCAGAAA
 ACTCTCTGCAATTCGGTCTCTATGGCGAGGACTATACTGTGTACACACAGCTTCTGTGCTATGGGAA
 GGATCAGGCTCTCTGGCAGAAAATGGCCAAGGACATTCAGGTTTCAAGTGGTGGCGTCTTAAGGACCCG
 TGCTTTAACCCAGGATACGAGAAGGTTGTGAATGTAAGTGAGCTCTATGGCACTCCCTGCACCGAAAAGAT
 TCGAAAAGAAGCTACCGTTTGTATCAGTTTGAATCCAGGGCACTGGAGACTACGAACAGTGCCACCAGAG
 CATCCTTGAGCTTTCAACAACAGCCACTGCCCTTACTCCCAGTGTGCCTCAATGGCGTCTTCTGCCA
 CCTCTCCATGGGAGTTTGGGGCGTTTCTGCTTCTACTTTGTGATGGATTTTTTAAGAAGGTAGCGA
 AAAACAGTGTCTCTCAGGAGAAAATGACCGAGATAACAAAAATTTTGTCCAAAATCTTGGGAAGA
 GACAAAGACATCTTATCCTTCAGTAAAGGAGAAGTACCTGAGTGAGTACTGCTTCTCGGGTGCCTACATC
 CTCTCTCTCTGCAAGGCTATAACTTCACAGACAGCTCCTGGGAACAGATTCAATTTATGGCAAGATCA
 AAGACAGCAACGCGGGTGGACTTTGGGCTACATGCTGAACCTTGACCAACATGATCCAGCTGAACAGCC
 GTTGTCCCGCTCTCCCTCACTCCACCTACATTGGCCTCATGTTCTCTTCTCCCTGCTTGGTTGCT
 GTGGCCATCACAGGCTGTTTCATCTATAGCAAGCCTTCATATTTCTGAAAAGAGGCAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208197 representing NM_009848
 Red=Cloning site Green=Tags(s)

MEDIKDSKVKRFCSKNILIIILGFTSILAVIALIAVGLTQNKPLPENVKYIVLDAGSSHTNLYIYKWPAE
 KENDTGVVQQLLEECQVKGPGISKYAQKTDIEIGAYLAECMELSTELIPTSKHHQTPVYLGATAGMRLRME
 SEQSADEVLAAVSTSLKGYPFDFQGAIIITGQEEGAYGWIITINYLLGRFTQEQLSLISDSQKQETFGA
 LDLGGASTQITFVQNSTIESPENSLQFRLYGEDYTVYTHSFLCYGKDQALWQKLAQDIQVSSGGVLKDP
 CFNPGYEKVVNVSELVYTPCTERFEKLPFDQFRIQGTGDYEQCHQSILELFNNSHCPYSQCAFNGVFLP
 PLHGSFGAFSAFYFVMDFFKKVAKNSVISQEKMTEITKNFCSKSWEETKTSYPSVKEKYLSEYCFSGAYI
 LSLQGYNFTDSSWEQIHFMGKIKDSNAGWTLGYMLNLNMIPAEQPLSPPLPHSTYIGLMVFLSLLVA
 VAITGLFIYSKPSYFWKEAV

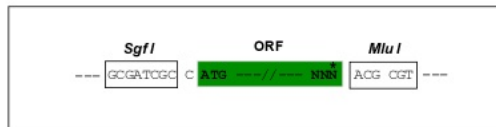
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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                                     Kozac
                                     Consensus
                                     Sgf I   Asc I
EcoR I   BamH I Kpn I   RBS
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

Hind III   Nhe I   Rsr II   Mlu I   Not I   Xho I   GFP Tag
CAAGCTTAAC TAGCTAGCGGACCG   ACG CGT   ACG CGG   CCG CTC   GAG   ATG   GAG   AGC   GAC   - - - - -
                                     T   R   T   R   P   L   E   M   E   S   D   -   -   -

Pme I   Fse I
- - - GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - - E   E   R   V   Stop
    
```

ACCN: NM_009848

ORF Size: 1530 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_009848.3](#), [NP_033978.1](#)
RefSeq Size: 4197 bp

RefSeq ORF: 1533 bp

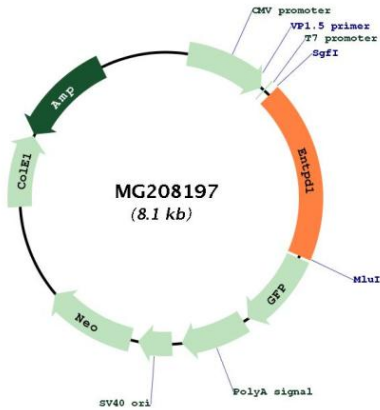
Locus ID: 12495

UniProt ID: [P55772](#)
Cytogenetics: 19 34.25 cM

Gene Summary:

In the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Could also be implicated in the prevention of platelet aggregation by hydrolyzing platelet-activating ADP to AMP. Hydrolyzes ATP and ADP equally well. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208197