

Product datasheet for **RG212315**

ENTPD7 (NM_020354) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENTPD7 (NM_020354) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENTPD7
Synonyms:	LALP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212315 representing NM_020354
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTAGGATCAGTTTTTCTACCTCTGCCCAGCCTCCTGGTACTTCACTGTGCCACAGTGAGTCCAT
 TTCTCCGTCAGCGGGTGGCATTCTGGGACTCTTCTTCATATCCTGTCTCCTTTTACTTATGTTAATCAT
 AGACTTTCGACATTGGAGTGCTTCATTACCACGAGATAGGCAATACGAAAGGTATTTGGCTCGAGTAGGG
 GAGCTTGAAGCTACTGACACTGAAGACCCAAATCTGAATTATGGACTTGTGTTGACTGTGGCAGCAGTG
 GTTCCCGGATTTTGTATTTCTGGCCAAGACATAATGGGAACCCCATGACTTGCTGGACATCAAAACA
 GATGAGAGACCGCAACAGCCAACAGTGGTTAAAAAATCAAGCCAGGAATCTCTGCAATGGCAGACACT
 CCAGAACATGCCAGTGATTACCTTCGCTCTGCTGAGCTTTGCTGCTGCTCATGTGCCTGTGAAGAAGC
 ACAAGGAGACCCCTTTTACATCTCTGCACAGCAGGCATGAGGCTTCTCCCTGAGAGGAAGCAGTTGGC
 TATCTTGGCTGACCTAGTGAAGATTTACCACTGGAGTTTGACTTCTCTTTTACAGTCTCAAGCAGAA
 GTGATCTCTGGGAAGCAGGAAGGGGTTATGCATGGATTGGAATCAACTTTGTTTGGGAAGATTGACC
 ACGAGGATGAATCAGATGCTGAGGCTACCCAGGAATTGGCAGCAGGACGAGAAGGACAGTAGGGATACT
 GGATATGGGAGGAGCCTCTCTCCAAATTGCTTATGAAGTTCCTACCTCAACCTCTGTCTTCTGCAAAAG
 CAGGAAGAAGCTGCCAAGATCCTGCTGGCTGAGTTCAACCTGGGCTGTGATGTGCAACACACTGAACACG
 TGTACAGGGTTTATGTCACAACTTTTCTGGGTTTCGGAGGCAACTTTGCCCGGCAGCGCTACGAAGACCT
 TGTCTGAATGAACTCTTAACAAAAACAGATTGCTTGGTCAGAAGACAGGTCTGAGTCCCGACAATCCA
 TTTCTGGATCCCTGCCTGCCAGTGGGACTCACAGATGTGGTGGAGAGGAACAGCCAAGTCTTACATGTCC
 GAGGAAGAGGAGACTGGGTGTCTTGTGGGCAATGCTGAGCCCCCTGCTGGCTCGCTCCAACACCAGCCA
 GGCTCACTCAATGGCATATATCAATCGCCTATTGACTTCAACAACAGCGAGTTCTACGGCTTCTCTGAG
 TTTTTTTATTGTACAGAGGATGTGTTGCGCATTGGTGGCCGCTACCATGGGCCAACATTTGCCAAGGCTG
 CTCAGGATTACTGTGGCATGGCTTGGTGGTACTAACTCAGAGATTCAAGAATGGCCTCTTTTCATCACA
 TGCAGATGAGCATCGACTCAAATATCAGTGTTTTAAATCGGCTTGGATGTACCAAGTCTTACATGAAGGA
 TTCCACTTTCCTATGACTACCCAAACCTGCGGACAGCCAGCTGGTGTATGACCGAGAGGTTCACTGGA
 CGCTGGGAGCCATTCTATATAAAACACGATTCTTACCACTCAGGGATCTTCGGCAGGAAGGTGTCCGACA
 AGCCCATGGTAGCTGGTTCGGTCTCTCCTTTGTATAACAACCACTATCTCTTTTGCCTGTATCCTGGTG
 GTGCTACTGGCCATCTTCTATACCTTCTGCGGCTACGCCGAATTCACCACCGACAAACACGAGCCTCAG
 CTCATTGGACTTGCTGTGGCTGAAGAGGTGGTCCCATGATGGGAGTACAGGTGGGGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212315 representing NM_020354
 Red=Cloning site Green=Tags(s)

MARISFSYLCPASWYFTVPTVSPFLRQRFVAFGLGLFFISCLLLLMLIIDFRHWSASLPRDRQYERYLARVG
 ELEATDTEPNLNYGLVVDGSSGSRIFVYFWPRHNGNPHDLLDIKQMRDRNSQPVVKKIKPGISAMADT
 PEHASDYLRPLLSFAAAHVPVKKHKETPLYILCTAGMRLLPERKQLAILADLVKDLPLEFDLFSQSQAE
 VISGKQEGVYAWIGINFVLGRFDHEDESDAEATQELAAGRRTVGILDMGGASLQIAYEVPTSTSVLPK
 QEEAAKILLAEFNLGCDVQHTHEVYRVYVTTFLGFGNFAQRQYEDLVNETLNKNRLLGQKTGLSPDNP
 FLDPLCPVGLTDVVERNSQVYLHVRGRGDWVSCGAMLSPLLARSNTSQASLNGIYQSPIDFNNSEFYGFSE
 FFYCTEDVLRIGGRYHGPTFAKAAQDYCGMAWSVLTQRFKNGLFSSHADEHRLKYQCFKSAWYQVLHEG
 FHFPYDYPNLRTAQLVYDREVQWTLGAILYKTRFLPLRDLRQEGVRQAHGSWFRLSFVYNHYLFFACILV
 VLLAIFLYLLRLRIHHRQTRASAPLDLLWLEEVVPMMGVQVGP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_020354

ORF Size: 1812 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020354.5](#)

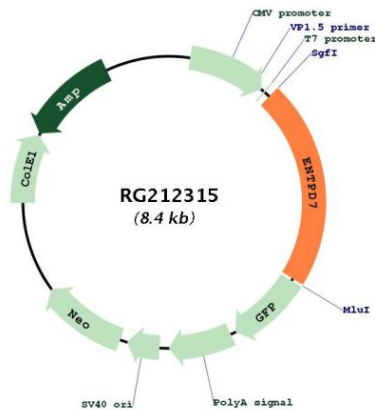
RefSeq Size: 3040 bp

RefSeq ORF: 1815 bp

Locus ID: 57089

UniProt ID:	<u>Q9NQZ7</u>
Cytogenetics:	10q24.2
Domains:	GDA1_CD39
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a purine-converting ectoenzyme which belongs to the ecto-nucleoside triphosphate diphosphohydrolase (E-NTPDase) family. The encoded protein hydrolyzes extracellular nucleoside triphosphates (UTP, GTP, and CTP) to nucleoside monophosphates as part of a purinergic signaling pathway. It contains two transmembrane domains at the N- and C-termini and a large, hydrophobic catalytic domain located in between. This gene affects oxidative stress as well as DNA damage and is a mediator of senescence. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG212315