

Product datasheet for **SC310224**

ENTPD7 (NM_020354) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENTPD7 (NM_020354) Human Untagged Clone
Tag:	Tag Free
Symbol:	ENTPD7
Synonyms:	LALP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310224 representing NM_020354.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTAGGATCAGTTTTTCTACCTCTGCCAGCCTCCTGGTACTTCACTGTGCCACAGTGAGTCCA
TTTCTCCGTCAGCGGGTGGCATTCTGGGACTCTTCTTCATATCCTGTCTCCTTTTACTTATGTTAATC
ATAGACTTTTCGACATTGGAGTGCTTCATTACCACGAGATAGGCAATACGAAAGGATTTGGCTCGAGTA
GGGAGAGCTTGAAGCTACTGACACTGAAGACCCAAATCTGAATTATGGACTTGTGTTGACTGTGGCAGC
AGTGGTCCCGGATTTTTGTTTATTTCTGGCCAAGACATAATGGGAACCCCATGACTTGCTGGACATC
AAACAGATGAGAGACCGCAACAGCCAACAGTGGTTAAAAAATCAAGCCAGGAATCTCTGCAATGGCA
GACACTCCAGAACATGCCAGTGATTACCTTCGCTCTGCTGAGCTTTGCTGCTGCTCATGTGCCTGTG
AAGAAGCACAAGGAGACCCCTCTTACATCCTCTGCACAGCAGGCATGAGGCTTCTCCCTGAGAGGAAG
CAGTTGGCTATCTTGGTGACCTAGTGAAGATTTACCACTGGAGTTGACTTCTCTTTTACAGTCT
CAAGCAGAAGTGATCTCTGGGAAGCAGGAAGGGGTTTATGCATGGATTGGAATCAACTTTGTTTGGGA
AGATTCGACCACGAGGATGAATCAGATGCTGAGGCTACCCAGGAATTGGCAGCAGGACGGAGAAGGACA
GTAGGGATACTGGATATGGGAGGAGCCTCTCTCCAAATTGCTTATGAAGTTCTACCTCAACCTCTGTC
CTTCTGCAAAGCAGGAAGAAGCTGCCAAGATCCTGCTGGCTGAGTTCAACCTGGGCTGTGATGTCAA
CACACTGAACACGTGTACAGGGTTTATGTCACAACTTTTCTGGGTTTCGGAGGCAACTTTGCCCGGCAG
CGCTACGAAGACCTTGTCTGAATGAACTCTTAACAAAAACAGATTGCTTGGTCAGAAGACAGGTCTG
AGTCCCGACAATCCATTTCTGGATCCCTGCCTGCCAGTGGGACTCACAGATGTGGTGGAGAGGAACAGC
CAAGTCTTACATGTCCGAGGAAGAGGAGACTGGGTGTCTTGTGGGCAATGCTGAGCCCCCTGCTGGCT
CGCTCCAACACCAGCCAGGCCTCACTCAATGGCATATATCAATCGCCTATTGACTTCAACAACAGCGAG
TTCTACGGCTTCTCTGAGTTTTTTTATTGTACAGAGGATGTGTTGCGCATTGGTGGCCGCTACCATGGG
CCAACATTTGCCAAGGCTGCTCAGGATTACTGTGGCATGGCTTGGTCCGTAATACTCAGAGATTCAAG
AATGGCCTCTTTTCATCATATGCAGATGAGCATCGACTCAAATATCAGTGTTTTAAATCGGCTTGGATG
TACCAAGTCTTACATGAAGGATTCCACTTTCCCTATGACTACCCAAACCTGCGGACAGCCAGCTGGTG
TATGACCGAGAGGTTCACTGGACGCTGGGAGCCATTCTATATAAAACACGATTCTTACCACTCAGGGAT
CTTCGGCAGGAAGGTGTCGACAAGCCCATGGTAGCTGGTCCGCTCTCCTTTGTATACAACCACTAT
CTCTTCTTTGCCTGTATCCTGGTGGTGTACTGGCCATCTTCTATACCTTCTGCGGCTACGCCGAATT
CACCACCACAAACACGAGCCTCAGCTCCATTGGACTTGTGTGGCTTGAAGAGGTGGTGCCCATGATG
GGAGTACAGGTGGGGCCGTGA
ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_020354

Insert Size: 1815 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_020354.3](#)

RefSeq Size: 8564 bp

RefSeq ORF: 1815 bp

Locus ID: 57089

UniProt ID: [Q9NQZ7](#)

Cytogenetics: 10q24.2

Domains: GDA1_CD39

Protein Families: Transmembrane

MW: 69 kDa

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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks an alternate exon in the 5' region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a shorter and distinct N-terminus, compared to isoform 1. Both variants 2 and 3 encode the same isoform (2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.