

Product datasheet for **RG226015**

ENTPD4 (NM_001128930) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENTPD4 (NM_001128930) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENTPD4
Synonyms:	LALP70; LAP70; LYSAL1; NTPDase-4; UDPase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226015 representing NM_001128930
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGGGAGGATTGGCATCTCCTGTCTTTTCTGCTTCTTGGCATTTTAGCATATCTCCAGTAGGGTGTCT
 CTGAATTCTGAATACCAATTTACGCCAAATTATGGTCATTAGTGTCTGGCTGCTGCTGTTTCACTTTT
 ATATTTTCTGTTGTCAATCCGAAATAAGTATGGGCGACTAACCAGAGACAAGAAATTTCAAAGGTAC
 CTGGCAGGAGTTACCGACATTGAAGCTACAGACACCAATAACCCCAATGTGAAGTATGGGATCGTGGTGG
 ACTGTGGTAGCAGTGGTCTCGAGTATTTGTTTACTGCTGGCCAAGGCATAATGGCAATCCACATGATCT
 GTTGGATATCAGGCAATGAGGGATAAAAACCGAAAGCCAGTGGTCATGAAGATAAACCGGGCATTTCAG
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 GACTCTCATGCAGAAATAATTTCTGGGAAACAAGAAGGTGTGTATGCTTGGATTGGCATTATTTTGTCC
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 TACGAAGTCCCCAAACTGAAGAAGTAGCTAAAACTTGTAGCTGAATTTAACTGGGATGTGATGTTT
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 GAGATACGAAGACAGAATATTTGCCAACACCATTCAAAAGAAGAGGCTCCTGGGTAAACAGACTGGTCTG
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 GTGTTTCATAGGGGCTTTTCTGTTTCTGTCAACTATAAAGCTTAAAGACTGCCTTGCAAGTTTACGACA
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 GGAGGCCTTCCGAGCCAGTCACACCCACTGGCGGGGCGTTTCTTTGTCTACAACCACTACCTGTTCTCT
 GGCTGCTTCTGGTGGTGTCTGTGGCCATCTGTGTACCTGCTGCGGCTGCGGCGCATCCACAGGCGCA
 CTCCCGGAGCAGCTCGGCCGCCGCCCTCTGGATGGAGGAGGGCCTTCCCGCCAGAATGCCCGGGGAC
 CTTG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

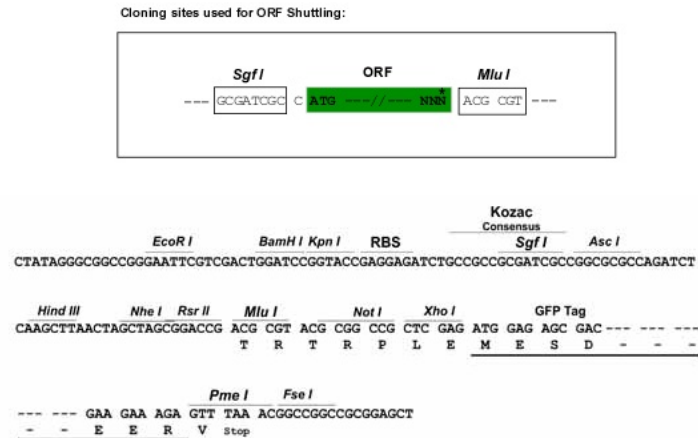
>RG226015 representing NM_001128930
 Red=Cloning site Green=Tags(s)

MGRIGISCLFPASWHFSISPVGCPRI LNTNL RQIMVISVLA AAVSLLYFSVVIIRNKYGR LTRDKKFQRY
 LARVTDIEATDTNPNVNYGIVVDCGSSGSRV FVYC WPRHNGNPHDLLDIRQMRDKNRPVVMKIKPGIS
 EFATSPKVS DYISPLL NFAAEHVPRAKHKE TPLYILCTAGMRILPESQQAILEDLLTDIPVHFDLFS
 DSHAEVISGKQEGVYAWIGINFVLGRFEHIEDD EAVVEVNIPGESSEAI VRKRTAGILDMGGVSTQIA
 YEVPKTEEVAKNLLAEFNLGCDVHQTEHVYRVYVATFLGFGGNAARQRYEDRIFANTI QKNRLLGKQTGL
 TPDMPYLDPCLPLDIKDEIQQNGQTIYLRGTGDFDLCRETIQPFMKNKTNETQTS LNVGYQPPIHFNSEF
 YGFSEFYCTEDVLRMGDYNAAKFTKAAKDYCATKWSILRERFDRGLYASHADLHRLKYQCFKSAWMFE
 VFHRGFSFPVNYSLKTALQVYDKEVQWTLGAILYRTRFLPLRDIQQEAFRASHTHWRGVSFVYNHYLFS
 GCFLVLLAILLYLLRLRRIHRRTPRSSAAALWMEELPAQNAPGTL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001128930

ORF Size: 1824 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_001128930.2](#), [NP_001122402.1](#)

RefSeq Size: 2966 bp

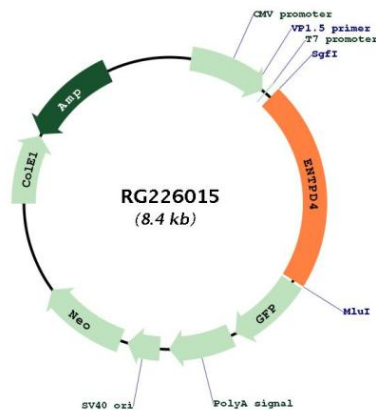
RefSeq ORF: 1827 bp

Locus ID: 9583

UniProt ID: [Q9Y227](#)

Cytogenetics:	8p21.3
Protein Families:	Transmembrane
Protein Pathways:	Lysosome, Purine metabolism, Pyrimidine metabolism
Gene Summary:	This gene encodes a member of the apyrase protein family. Apyrases are enzymes that catalyze the hydrolysis of nucleotide diphosphates and triphosphates in a calcium or magnesium-dependent manner. The encoded protein is an endo-apyrase and may play a role in salvaging nucleotides from lysosomes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and these isoforms may differ in divalent cation dependence and substrate specificity. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG226015