

Product datasheet for **SC117090**

ENTPD4 (NM_004901) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ENTPD4 (NM_004901) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ENTPD4 |
| Synonyms: | LALP70; LAP70; LYSAL1; NTPDase-4; UDPase |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004901, the custom clone sequence may differ by one or more nucleotides

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ATGGGGAGGATTGGCATCTCCTGTCTTTTTCTGCTTCTTGGCATTTTAGCATATCTCCAGTAGGGTGTC
CTCGAATTCTGAATACCAATTTACGCCAAATTATGGTCATTAGTGTCTGGCTGCTGCTGTTTCACTTTT
ATATTTTTCTGTGTGCATAATCCGAAATAAGTATGGGCGACTAACCAGAGACAAGAAATTTCAAAGGTAC
CTGGCACGAGTTACCGACATTGAAGCTACAGACACCAATAACCCCAATGTGAACTATGGGATCGTGGTGG
ACTGTGGTAGCAGTGGGTCTCGAGTATTTGTTTACTGCTGGCCAAGGCATAATGGCAATCCACATGATCT
GTTGGATATCAGGCAAATGAGGGATAAAAAACGAAAGCCAGTGGTCATGAAGATAAAACCGGGCATTTC
GAATTTGCTACCTCTCCAGAGAAAGTCAGTGATTACATTTCTCCACTTTTGAATTTGCTGCAGAGCATG
TGCCACGGGCAAAACACAAGAGACACCTCTCTACATTCTCTGCACGGCTGGAATGAGAATCCTCCCCGA
AAGCCAGCAGAAAGCTATTCTGGAAGACCTTCTGACCGATATCCCCGTGCACTTTGACTTTCTGTTTTCT
GACTCTCATGCAGAAGTAATTTCTGGAAACAAGAAGGTGTATGCTTGGATTGGCATTAAATTTGTCC
TTGGACGATTTGAGCATATTGAAGATGATGATGAGGCCGTTGTGGAAGTTAACATTCCTGGAAGTAAA
CAGCGAAGCCATTGTCCGTAAGGACAGCGGGCATTCTCGACATGGGCGCGTGTGCACTCAGATAGCG
TACGAAGTCCCCAAAACGTAAGCTTTGCGTCCTCACAGCAGGAAGAAGTAGTAAAACTTGTTAGCTG
AATTTAACTTGGGATGTGATGTTACCAAACCTGAGCATGTGATCGAGTCTATGTGGCCACGTTTCTTGG
GTTTGGTGGCAATGCTGCTCGACAGAGATACGAAGACAGAATAATTTGCCAACACCATTCAAAGAACAGG
CTCCTGGGTAACAGACTGGTCTGACTCCTGATATGCCGTAATGGACCCCTGCCTACCCCTAGACATTA
AAGATGAAATCCAGCAAAATGGACAAACCATATACCTACGAGGGACTGGAGACTTTGACCTGTGTGAGA
GACTATCCAGCCTTTTATGAATAAAACAACGAGACCCAGACTTCCCTCAATGGGGCTTACCAGCCCCA
ATTCACTCCAGAACAGTGAATTTCTATGGCTTCTCCGAATTTACTACTGCACCGAGGATGTTTACGAA
TGGGGGGAGACTACAATGCTGCTAAATTTACTAAAGCTGCAAAGGATTATTGTGCAACAAGTGGTCCAT
TTTGCGGGAACGCTTTGACCGAGGACTGTACGCTCTCATGCTGACCTCCACAGGCTTAAGTATCAGTGC
TTCAAATCGCCCTGGATGTTTGGAGTGTTCATAGGGGCTTTTCGTTTCTGTCAACTATAAAAGCTTAA
AGACTGCCTTGAAGTTTACGACAAGGAGGTTTCACTGGACCCCTGGAGCCATCCTCTACAGGACCCGCTT
TCTACCATTAAGAGACATCCAGCAGGAGGCTTCCGAGCCAGTACACCCACTGGCGGGGCGTTTCTTTT
GTCTACAACCACTACCTGTTCTGCTGCTTCTGCTGGTGTGCTGCTGGCCATCCTGCTGTACCTGCTGC
GGCTGCGGCGCATCCACAGGCGCACTCCCCGGAGCAGCTCGGCCGCCCTCTGGATGGAGGAGGGCTT
TCCCGCCAGAATGCCCGGGACCTTGTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004901 unedited

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GTCAGAATTTGTATACGACTCCTATAGGCGGCCGCGAATTCGCACGAGGCCTCGTGCCG
AATTCGGCACGAGGGGAAGCCGGCTGGCCGTGATGCTGCCACTGGTGGTCCCCCGCTCC
CGGGGTCCCCGGCCGCAAGCAGGAGGGCTCTAACTCCGTGAGGACCCAGCATTATTT
CTATAATTTGTTTGTGAGAAGGACTGAATCCCAGAGCATTGCCCTTGTGCTGACCTTTCAG
TATGGGGAGGATTGGCATCTCCTGTCTTTTTCTGCTTCTTGGCATTTTAGCATATCTCC
AGTAGGGTGTCTCGAATTCTGAATACCAATTTACGCCAAATTATGGTCATTAGTGTCT
GGCTGCTGCTGTTTCACTTTTATATTTTCTGTTGTGCATAATCCGAAATAAGTATGGGCG
ACTAACCCAGAGACAAGAAATTTCAAAGGTACCTGGCACGAGTTACCGACATTGAAGCTAC
AGACACCAATAACCCCAATGTGAACTATGGGATCGTGGTGGACTGTGGTAGCAGTGGGTC
TCGAGTATTTGTTTACTGCTGGCCAAGGCATAATGGCAATCCACATGATCTGTTGGATAT
CAGGCAAATGAGGGATAAAAACGAAAGCCAGTGGTCATGAAGATAAAACCGGGCATTTC
AGAATTTGCTACCTCTCCAGAGAAAGTCAAGTATTACATTTCTCCACTTTTGAATTTGCT
TGCAGAGCATGTGCCACGGGCAAAACACAAGAGACACCTCTCTACATTTCTGCACGGC
TGAAATGAGAATCCTCCCCGAAGCCAGCANGAAGCTATCCTGGAAGACCTTCTGACCGA
TATCCCCGTGCACTTTGACTTTTCTGTTTTCTGACTCTCATGCAGAAGTAATTTCTGGGA
ACCAGAAGNGTGTATGCCTTGA
    
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_004901 unedited CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGACGGAGTCTCACTCTGT CGCCCAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCACTGCAAGCTCGCCTCCCAGGTT CATGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACGGGCGCCCGCCACCACA CCCAGCTAATTTTTGTATTTTAGTAAAGACGGGGTTTCACCGTGTAGCCAGGATGGG CTCGATCTCCTGACCTCATGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGG CGTGAGCCACCGCGCTCGGCCTGCATTTTGTTTTTGTTTGGAGGAACAACAAAGGGAAAG AAAAAACAAATCCCAGGAAAATAAGAGGAGACACCCTGAGGCAAAAAAGGCCGTTGCT TTGGAGTCTAGTGGAGCTGTGAGCTGGATCACCAGGTCCCCGGGGCATTCTGGGCGGG AAGGCCCTGCACCATTCCAATGGTGGTGTCCAACCTCGTTCGTGGAGTGTCTCTGTTGTT CATCTTCGCCCTTCTTCAATTCCTCCTAGGTCTCCCTCTTCTCTGATTTGCGACAG CCTGTTACGGTTATTAATACCGCAACTTACACTTCGCGTGAGTCTCGCTAGTTTCCGCC AATTACTTTATTTGTATTACGTTTGTACTCTGTTCCCTTCTTCTGCTCCACGTGGTAT ACTCACTACGTCCCCCCTTCCAACACACCTCCCATCCCTCCGCTCCCCGTCNCC GNCCTCCGCACGGCGTTGCTACCTCCAACCCGCGTCGTCCACCGTATCATCCTCCCTC CCCCACCGTCAAGTAATAAACTGACATTACCCGTCCAGTTTTATCCCATCCATATGAAT TTCCCGTATCACCATCGCTTCCACGTATCATCGACTGCGATTTGATACTTCTGCCCCC CTATACCCCT |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_004901 |
| Insert Size: | 2760 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). |
| 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: | <u>NM_004901.1, NP_004892.1</u> |
| RefSeq Size: | 2330 bp |
| RefSeq ORF: | 1851 bp |
| Locus ID: | 9583 |
| UniProt ID: | <u>Q9Y227</u> |
| Cytogenetics: | 8p21.3 |
| Domains: | GDA1_CD39 |

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|--------------------------|---|
| Protein Families: | Transmembrane |
| Protein Pathways: | Lysosome, Purine metabolism, Pyrimidine metabolism |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). 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.</p> |