

Product datasheet for **SC112976**

Pyrophosphatase 1 (PPA1) (NM_021129) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pyrophosphatase 1 (PPA1) (NM_021129) Human Untagged Clone
Tag:	Tag Free
Symbol:	Pyrophosphatase 1
Synonyms:	HEL-S-66p; IOPPP; PP; PP1; SID6-8061
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112976 sequence for NM_021129 edited (data generated by NextGen Sequencing)

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ATGAGCGGCTTCAGCACCGAGGAGCGCGCCGCCCTTCTCCCTGGAGTACCGAGTCTTC
CTCAAAAATGAGAAAGGACAATATNTATCTCCATTTTCATGATATTCCAATTTATGAGAT
AAGGATGTGTTTTACATGGTAGTTGAAGTACCACGCTGGTCTAATGCAAAAATGGAGATT
GCTACAAAGGACCCTTTAAACCCTATTAACAAGATGTGAAAAAAGGAAAACCTTCGCTAT
GTTGCGAATTTGTTCCCGTATAAAGGATATATCTGGAACATGGTGCCATCCCTCAGACT
TGGGAAGACCCAGGGCACAATGATAAACATACTGGCTGTTGTGGTGACAATGACCCAATT
GATGTGTGTGAAATTGGAAGCAAGGTATGTGCAAGAGGTGAAATAAATTGGCGTGAAAGTT
CTAGGCATATTGGCTATGATTGACGAAGGGAAACCGACTGAAAAGTCATTGCCATTAAT
GTGGATGATCCTGATGCAGCCAATTATAATGATATCAATGATGTCAAACGGCTGAAACCT
GGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAGGTTCTGATGGAAAACCA
GAAAATGAGTTTTCGCTTTAATGCAGAAATTTAAAGATAAGGACTTTGCCATTGATATTATT
AAAAGCACTCATGACCATTGAAAGCATTAGTGACTAAGAAAACGAATGGAAAAGGAATC
AGTTGCATGAATACAACCTTTGTCTGAGAGCCCCCTCAAGTGTGATCCTGATGCTGCCAGA
GCCATTGTGGATGCTTTACCACCACCCTGTGAATCTGCCTGCACAGTACCAACAGACGTG
GATAAGTGGTTCATCACCAGAAAACTAA
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Clone variation with respect to NM_021129.3
85 a=>n



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_021129 unedited</p> <pre>GGTCAGGATATTATGTAACGACTTACTATAGGCGGCCGCCAATTCGCACGAGGGCGTG GGGTTCTCTCCTTGTCACTCGGCGCCGCCCGGGCTGGTGGCTCTGTGGCAGCGCGGC GGCAGGACTCCGGCACTATGAGCGGCTTACGACCCGAGGAGCGCGCCGCCCTTCTCCC TGGAGTACCGAGTCTTCTCAAAAATGAGAAAGGTCTATATATCTCCATTTTCATGATATT CCAATTTATGCAGATAAGGATGTGTTTCACATGGTAGTTGAAGTACCACGCTGGTCTAAT GCAAAAATGGAGATTGCTACAAAGGACCCTTTAAACCCTATTAACAAGATGTGAAAAA GGAAAACCTTCGCTATGTTGCGAATTTGTTCCCGTATAAAGGATATATCTGGAACTATGGT GCCATCCCTCAGACTTGGGAAGACCCAGGGCACAAATGATAAACATACTGGCTGTTGTGGT GACAATGACCCAATTGATGTGTGTGAAATTGGAAGCAAGGTATGTGCAAGAGGTGAAATA ATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAGGGGAAACCGACTGGAAA GTCATTGCCATTAATGTGGATGATCCTGATGCAGCCAATTATAATGATATCAATGATGTC AAACGGCTGAAACCTGGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAAGTT CCTGATGCAAAACAGAAAATGAGTTTGCCGTTTATGCAGAAATTAAGATAACGACTTT GCCATTGATATTATTAAGCACTCATGACCATTGAAAGCTTAGTGACTAAGAAACGAA TGGAAAAGGATCAGTTGCATGAATACACCTTGTCTGAGAGCCCTCCAGTGTGATCCCTG TGCTGCCANACCCATG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_021129 unedited</p> <pre>AATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCAGCAAAATAATTTTATTTCTAACATA TGGTAACATATACATCCAATATGTGCTCCCCTTGCACATCTATTCACAAGTGACTTCCAA ATGACAACCTGCTTTGATATTTAAGCATGTGCTAAAAGTTATCTTAGTTGAGATATGAAAA ATGCTTTAGATGGATAACATTCTGAGTATATTGGATTAGTCACAGCAGAATTTACTTTAG TTAGATGAGTTTACAAATTTAAAGCTTTGAAAAGCTACTACTTTTACTTCTAATACATC CAGATGAACACGATGTAGCAATATCAGCTTGTATTCCAGAGAAATCTCATTAGTTTTTCT GGTGATGGAACCACTTATCCACGTCTGTTGGTACTGTGCAGGCAGATTACAGGGTGGTG GTAAGCATCCACAATGGCTCTGGCAGCATCAGGATCACACTTGAAGGGGCTCTCAGACA AAGTTGTATTTCATGCAACTGATTCCTTTTCCATTCGTTTTTCTTAGTCACTAATGCTTTCC AATGGTCATGAGTGCTTTAATAATATCAATGGCAAAGTCCTTATCTTTAAATTCGCAT TAAACGCAAACCTCATTTTCTGTTTTTCCATCAGGAACCTTATACCTTCTAAACAGTCCA CAGTAGCTTCTAAGTAGCCAGGTTTTCAGCCGTTTGCATCATTGATATCATTATAANTGG CTGCATCAGGATCATCCACATTNATGGNCATGACTTNCAGTCCGGTTCCCTTCTGTCAA TCTAGCCATATGCCTAGACTTTTACGCCATATTTACCTCTGCCATACCTTGCTTCATTTA CAACATCANTGGGTCATGTCCCACACACAGTATGTATCATTGGCCCTGGCCTCCCATCT GAGAATGCACATAGTCCGATTATCTTTTACGGACAATCCACTAACGAGTTTCTTTTAC ATCTGTAAGGTTA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_021129
Insert Size:	1320 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:	NM_021129.2 , NP_066952.1
RefSeq Size:	1297 bp
RefSeq ORF:	870 bp
Locus ID:	5464
UniProt ID:	Q15181
Cytogenetics:	10q22.1
Domains:	Pyrophosphatase
Protein Families:	ES Cell Differentiation/IPS
Protein Pathways:	Oxidative phosphorylation
Gene Summary:	The protein encoded by this gene is a member of the inorganic pyrophosphatase (PPase) family. PPases catalyze the hydrolysis of pyrophosphate to inorganic phosphate, which is important for the phosphate metabolism of cells. Studies of a similar protein in bovine suggested a cytoplasmic localization of this enzyme. [provided by RefSeq, Jul 2008]