

Product datasheet for **SC127103**

ENPP3 (NM_005021) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENPP3 (NM_005021) Human Untagged Clone
Tag:	Tag Free
Symbol:	ENPP3
Synonyms:	B10; CD203c; NPP3; PD-IBETA; PDNP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005021 edited
 ATGGAATCTACGTTGACTTTAGCAACGGAACAACCTGTTAAGAAGAACACTCTTAAGAAA
 TATAAAATAGCTTGCAATTGTTCTTCTTGGCTTTGCTGGTGATCATGTCACCTGGATTAGGC
 CTGGGGCTTGGACTCAGGAAACTGGAAAAGCAAGGCAGCTGCAGGAAGAAGTGCTTTGAT
 GCATCATTAGAGGACTGGAGAAGTCCCGGTGTGATGTGGCATGTAAGACCGAGGTGAT
 TGCTGCTGGGATTTTGAAGACACCTGTGTGGAATCAACTCGAATATGGATGTGCAATAAA
 TTTCTGTTGGAGAGACCAGATTAGAGGCCAGCCTTTGCTCTTGTTCAGATGACTGTTTG
 CAGAGGAAAGATTGCTGTGCTGACTATAAGAGTGTGGCCAAAGGAGAAACCTCATGGCTG
 GAAGAAAAGTGTGACACAGCCAGCAGTCTCAGTCCCAGAAAGGTTTGACCTGCCACCA
 GTTATCTTGTCTTCTATGGATGGATTTAGAGCTGAATATTTATACACATGGGATACTTTA
 AAGCCAAATATCAATAAACTGAAAACATGTGGAATTCATTCAAAAATACATGAGAGCTATG
 TATCCTACCAAAACCTTCCCAAATCATTACACCATTGTCACGGGCTTGTATCCAGAGTCA
 CATGGCATCATTGACAATAATATGTATGATGTAATCTCAACAAGAAATTTTCACTTTCT
 TCAAAGGAACAAAATAATCCAGCCTGGTGGCATGGGCAACCAATGTGGCTGACAGCAATG
 TATCAAGGTTTAAAAGCCGCTACCTACTTTTGGCCGGATCAGAAAGTGGCTATAAATGGC
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 AACTGTTAAAATGGCTGGACCTGCCAAAGCTGAAAGACCCAGGTTTTATACCATGTAT
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 TTGCACAACCTGTGCAATATCATCCTTCTGGCTGACCATGGAATGGACCAGACTTATTGT
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 ACTCCTGATTTGCCAAAGCGACTGCACTATGCCAAGAACGTCAGAATCGACAAAGTTCAT
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 GGCAACCATGGTTATAAATGAGTTTAGGAGCATGGAGGCTATCTTTCTGGCACATGGA
 CCCAGTTTTAAAGAGAAGACTGAAGTTGAACCATTGAAAATATTGAAGTCTATAACCTA



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ATGTGTGATCTTCTACGCATTCAACCAGCACCAAACAATGGAACCCATGGTAGTTTAAAC
CATCTTCTGAAGGTGCCTTTTTATGAGCCATCCCATGCAGAGGAGGTGTCAAAGTTTTCT
GTTTGTGGCTTTGCTAATCCATTGCCACAGAGTCTCTTGACTGTTTCTGCCCTCACCTA
CAAAATAGTACTCAGCTGGAACAAGTGAATCAGATGCTAAATCTCACCCAAGAAGAAATA
ACAGCAACAGTGAAGTAAATTTGCCATTTGGGAGGCCTAGGGTACTGCAGAAGAACGTG
GACCCTGTCTCCTTTACCACAGGGAATATGTCAGTGGATTTGGAAAAGCTATGAGGATG
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ATATTTTTCTGCCAGAATTATCTAAACAAAAGGAGAACAAGAAAGTATGTCTCACTT
GGGAACGAATCAACTCTAAATCAGTTTTGTCAAAAACTTTTTGTATTTGACTGCAAT
GCTGATTAATAATTAATAATGCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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Restriction Sites:

Please inquire

ACCN:

NM_005021

Insert Size:

3200 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_005021.2](#), [NP_005012.1](#)

RefSeq Size: 2794 bp

RefSeq ORF: 2628 bp

Locus ID: 5169

UniProt ID: [O14638](#)

Cytogenetics: 6q23.2

Domains: SO, Endonuclease, Phosphodiester

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, Nicotinate and nicotinamide metabolism, Pantothenate and CoA biosynthesis, Purine metabolism, Riboflavin metabolism, Starch and sucrose metabolism

Gene Summary: The protein encoded by this gene belongs to a series of ectoenzymes that are involved in hydrolysis of extracellular nucleotides. These ectoenzymes possess ATPase and ATP pyrophosphatase activities and are type II transmembrane proteins. Expression of the related rat mRNA has been found in a subset of immature glial cells and in the alimentary tract. The corresponding rat protein has been detected in the pancreas, small intestine, colon, and liver. The human mRNA is expressed in glioma cells, prostate, and uterus. Expression of the human protein has been detected in uterus, basophils, and mast cells. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene. [provided by RefSeq, Oct 2015]

Transcript Variant: This variant (1) represents the longer, protein-coding transcript.