

Product datasheet for **RG224818**

ENPP3 (NM_005021) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENPP3 (NM_005021) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENPP3
Synonyms:	B10; CD203c; NPP3; PD-IBETA; PDNP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224818 representing NM_005021
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAATCTACGTTGACTTTAGCAACGGAACAACCTGTTAAGAAGAACACTCTTAAGAAATATAAAATAG
 CTGCAATTGTTCTTCTTGTCTTGTCTGGTATCATGTCACCTGGATTAGGCCTGGGGCTTGGACTCAGGAA
 ACTGGAAGCAAGGCAGCTGCAGGAAGAAGTGTCTTGTATGCATCATTTAGAGGACTGGAGAAGTCCCGG
 TGTGATGTGGCATGTAAGACCGAGGTGATTGCTGCTGGGATTTTGAAGACACCTGTGTGGAATCAACTC
 GAATATGGATGTGCAATAAATTTCTGTTGTGGAGAGACCAGATTAGAGGCCAGCCTTTGCTCTTGTTCAGA
 TGACTGTTTGCAGAAGAAAGATTGCTGTGCTGACTATAAGAGTGTGGCAAGGAGAAACCTCATGGCTG
 GAAGAAAAGTGTACACAGCCAGCAGTCTCAGTCCCAGAAGGGTTTGACCTGCCACAGTTATCTTGT
 TTTCTATGGATGGATTTAGAGCTGAATATTTATACACATGGGATACTTTAATGCCAAATATCAATAAACT
 GAAAACATGTGGAATTCATTCAAATACATGAGAGCTATGTATCCTACCAAACCTTCCCAAATCATTAC
 ACCATTGTCACGGCTTGTATCCAGAGTCACATGGCATCATTGACAATAATATGTATGATGATAAATCTCA
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 GACAGCAATGTATCAAGTTTAAAAGCCGCTACCTACTTTGGCCCGGATCAGAAGTGGCTATAAATGGC
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 TGGACATGCAGGTGGACCACTCAGTCCCAGAGTAATTAAGCCTTACAGGTAGTAGATCATGCTTTTGGG
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 TGCCAAAGCGACTGCACTATGCCAAGAAGTGCAGAAATCGACAAAGTTCATCTCTTTGTGGATCAACAGTG
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 CTCAGCTGGAACAAGTGAATCAGATGCTAAATCTCACCAAGAAGAAATAACAGCAACAGTGAAAGTAAA
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 AACACTGATGTTCCCATCCCAACACACTACTTTGTGGTGTGACCAAGTTGTAACCAAGAGCCACACAC
 CGGAAAAGTGCCTGGTGGCTGGATGTCTACCTTTATCATCCTCACCGACCTACCAACGTGGAGAG
 CTGTCTGAAGGTAAACAGAGCTCTTTGGGTTGAAGAAAGATTTACAGCTCACATTGCCCGGGTCCGT
 GATGTAGAAGTCTCACTGGGCTTACTTCTATCAGGATAAAGTGCAGCCTGTCTCTGAAATTTGCAAC
 TAAAGACATATTTACCAACATTTGAAACCACTATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224818 representing NM_005021
 Red=Cloning site Green=Tags(s)

MESTLTLATEQPVKKNTLKKYKIACIVLLALLVIMSLGLGLGLRLEKQGSCRKCFDASFRGLENCR
 CDVACKDRGDCCWDFEDTCVESTRIWMCNKFRCGETRLEASLCSDDCLQKKDCCADYKVCQGETSWL
 EENCDAQQSQCEPFGDLPPVILF SMDGFRAEYLTYWDTLMPNINKLKTGCIHSKYMRAMYPTKTFPNHY
 TIVTGLYPESHGIIIDNNMYDVNLNKNFSLSSKEQNNPAWWHGQPMWLTAMYQGLKAATYFPGSEVAING
 SFPSIYMPYNGSVPFEEIRSTLLKWLDPKAERPRFYTYMYFEEDSSGHAGGPVSARVIKALQVVDHAFG
 MLMEGLKQRNLHNCVNIILLADHGMDQTYCNKMEYMTDYFPRINFFYMEGPAPRIRAHNIPHDFFSFNS
 EEIVRNLSCRKPDQHFKPYPYLPDLPKRLHYAKNVRIDKVHLFVDQQLAVRSKSNNTNCGGNHGYNNEFR
 SMEAIFLAHGSPFKEKTEVEPFENIEVYNLMCDLLRIQPAPNNGTHGSLNHLKVPFYEP SHAEVSKFS
 VCGFANPLPTESLDCFCPHLQNSTQLEQVNQMLNL TQEEITATVKVNLPFGRPRVLQKNVDHCLLYHREY
 VSGFGKAMRMPMWSYTPQLGDTSPPTVPDCLRADVRVPPSESQKCSFYLDKNITHGFLYPPASN
 TDSQYDALITSNLVPMYEEFRKMWDYFHSVLLIKHATERNGVNVVSGPIFDYNYDGHFDAPDEITKHLA
 NTDVPIPTHYFVVLTSCKNKSHTPENCPGWLVDLVPFIIPHRPTNVESCEPEKPEALWVEERFTAHIARVR
 DVELLTGLDFYQDKVQPVSEILQLKTYLPTFETI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

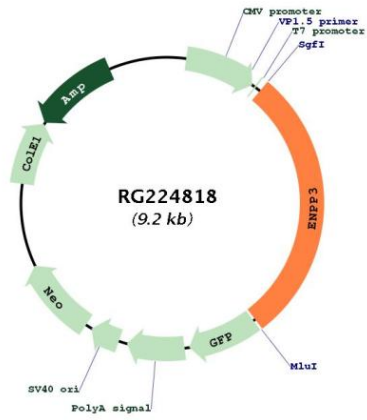
Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:	NM_005021
ORF Size:	2625 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:	<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_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]

Product images:



Circular map for RG224818