

Product datasheet for **RG205333**

ENPP4 (NM_014936) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENPP4 (NM_014936) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENPP4
Synonyms:	NPP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205333 representing NM_014936
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAAGTTATTAGTAATACTTTTGTCTGGACTTATAACTGGTTTGAAGTGACTCTTCCTCTAGTT
 TGCCACCTAAGTTACTACTAGTATCCTTTGATGGCTTCAGAGCTGATTATCTGAAGAACTATGAATTTCC
 TCATCTCCAGAATTTTATCAAAGAAGGTGTTTGGTAGAGCATGTTAAAAATGTTTTATCACAAAAACA
 TTTCAAACCACTACAGTATTGTGACAGGCTTGTATGAAGAAAGCCATGGCATTGTGGCTAATTCATGT
 ATGATGCAGTCACAAAGAAACACTTTTCTGACTCTAATGACAAGGATCCTTTTGGTGAATGAGGCAGT
 ACCTATTTGGGTGACCAATCAGCTTCAGGAAAACAGATCAAGTGCTGCTGCTATGTGGCCTGGTACTGAT
 GTACCCATTCACGATACCATCTCTCTATTTTATGAATTACAACCTCAGTGTCATTTGAGGAAAGAC
 TAAATAATATTACTATGTGGCTAAACAATTGGAACCCACAGTCACCTTTGCAACACTATATTGGGAAGA
 ACCAGATGCAAGTGGCCACAAATACGGACCTGAAGATAAAGAAAACATGAGCAGAGTGTTGAAAAAATA
 GATGATCTTATCGGTGACTTAGTCCAAAGACTCAAGATGTTAGGGCTATGGGAAAATCTTAATGTGATCA
 TTACAAGTGATCATGGGATGACCCAGTGTCTCAGGACAGACTGATAACCTGGATTCTGCATCGATCA
 TTCATACTACACTCTTATAGATTTGAGCCCACTGCTGCAATACTTCCAAAAATAATAGAACAGAGGTT
 TATAACAACTGAAAACTGTAGCCCTCATATGAATGTTTATCTCAAAGAAGACATTCTAACAGATTTT
 ATTACCAACATAATGATCGAATTCAGCCCATATTTTGGTTGCCGATGAAGGCTGGACAATTGTGCTAAA
 TGAATCATCACAAAAATTAGGTGACCATGGTTATGATAATTCTTGCCTAGTATGCATCCATTTCTAGCT
 GCCCAGGACCTGCATTTACAAAGGCTACAAGCATAGCACAATTAACATTGTGGATATTTATCCAATGA
 TGTGCCACATCCTGGGATTAACCACATCCCAATAATGGGACCTTTGGTCATACTAAGTGCTTGTAGT
 TGACCACTGGTGATTAATCTCCAGAAGCCATCGCGATTGTTATCGGTTCACTCTTGGTGTAAACCATG
 CTAACATGCCTCATAATAATCATGCAGAATAGACTTTCTGTACCTCGTCCATTTTCTGACTTCAGCTAC
 AAGAAGATGATGATGATCCTTTAATTGGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205333 representing NM_014936
 Red=Cloning site Green=Tags(s)

MKLLVILLFSGITGFRSDSSSLPPKLLLVSFDFRADYLNKYEFPHLQNFKEGVLEHVKNVFITKT
 FPNHYSIVTGLYEESHGIVANSYDAVTKKHFSDSNDKDPFWNEAVPIWVTNQLQENRSSAAAMWPGTD
 VPIHDTISSYFMNYSVSFEERLNNITMWLNNSNPPVTFATLYWEEPASGHKYPEDKENMSRVLKKI
 DDLIGDLVQRLKMLGLWENLNVITSDHGMTQCSQDRLINLSDCIDHSYYTLIDLSPVAAILPKINRTEV
 YNKLKNCSPHMNVYLKEDIPNRFYYQHNDRIQPIILVADEGWTIVLNESSQKLGHDGYDNSLPSMHPFLA
 AHGPAFHKGKYSTINIVDIYPMMCHILGLKPHPNNGTFGHTKCLLVQWCINLPEAIAIVIGSLLVLTML
 LTCLIIIMQNRLSVPRPFSRLQLQEDDDPLIG

TRTRPLE – GFP Tag – V

Restriction Sites:

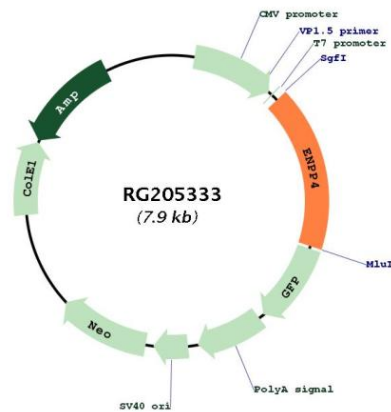
Sgfl-MluI

Cloning Scheme:


ACCN:	NM_014936
ORF Size:	1359 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014936.5
RefSeq Size:	4312 bp
RefSeq ORF:	1362 bp
Locus ID:	22875

UniProt ID:	<u>Q9Y6X5</u>
Cytogenetics:	6p21.1
Domains:	Phosphodiester
Protein Families:	Transmembrane
Gene Summary:	Hydrolyzes extracellular Ap3A into AMP and ADP, and Ap4A into AMP and ATP. Ap3A and Ap4A are diadenosine polyphosphates thought to induce proliferation of vascular smooth muscle cells. Acts as a procoagulant, mediating platelet aggregation at the site of nascent thrombus via release of ADP from Ap3A and activation of ADP receptors.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205333