

Product datasheet for **MR220311**

Enpp5 (NM_001168620) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp5 (NM_001168620) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Enpp5
Synonyms:	AW061004; D17Abb1e; E-NPP 5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220311 representing NM_001168620
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTCCAGAGTTTCTCCTTGCCTTGCACACTGGCTACTCTATGCCATTCGGCTCCGTTTTCTCTAC
 AGCCAGAAGAGCAGAAAGTTCTGGTAGTTCTTTTGGATGGATTCCGCTGGGATTACTTATATAAAGTTCC
 AACCCCTCATTTCCATTATATCATGAAAAATGGTGTCCATGTGAACCAAGTCACTAATGTTTTATCACA
 AAGACCTACCCTAACATTACACTTTGGTCACTGGTCTCTTTCAGAGAATCATGGGATTGTTGCAATG
 ACATGTTGACCTATTCTGAACAAGTCTTCTCCTTGGAGCACATGGATATTTATGATTCTAAGTTTTG
 GGAAGAAGCCACACCAATATGGATCACAAACCAGAGGGCAGGGCATGCTAGTGGCGGCCATGTGGCCC
 GGAGCAGATGTGAAGATCCACGATAGTTTCCCGACCTATTATCTACCTTACAATGAGTCTGTTTCTTTG
 AAGACAGAGTTGCCAAAATCATTGAGTGGTTTACAGCCAAAGATCCCATCAATCTCGTTTTCTCTACTG
 GGAAGAACCCGATGACACGGCCATGATGTGGGACCTGACAGTCTCTCATGGGGTCTGTTATTTCTGAT
 GTTGACCAACAAGTTAGGGTATCTGATAAAGATGCTGAAAAGGGCAAAGTTGTGGAATAATGTTAACCTCA
 TCGTCACGAGCGACCATGGGATGACCCAGTGCTTAAGCAAAGGGTGATAGAACTTGACCCTACCTGGA
 CAAAGAGCACTACACCTTGATTGATCACTACCTGTAGCTGCCATCCTGCCAAAAGAAGGTAATTTGAT
 GAAGTCTATGATGCGCTGGCCGGTGCCCATCCTAATCTAACGGTCTATAAAAAGGAGGAGATACCAGAAA
 GATGGCATTACAAGCACAATGACAGAGTTCAACCAATCGTAGCTGTGGCCGATGAAGGGTGGTATATTTT
 GCAGAATAAGTCAGATGATTTTCTGTTAGGCAACCATGGTTATGATAATGCATTAGCAGAAATGCATCCA
 ATATTTTTAGCCACGGTCTGCCTTCAAGAAATTTCAAAAAGAAGCCATGAACTCCACAGATCTGT
 ACTCACTGCTTGCACCTCTCAATCTCACCGCCCTGCCACACAATGGATCATTCTGGAATGTCCAGAG
 CTTTCTCAGTTTACGCAACTCCCAAGCAATTCTTACACACAGAGTACCACACTCCTCCTTGGGAGTGAC
 AAACCAGGGGAGGATGAGCAAGAGGAATCGTACCTTATTACATAGGTGTCTCTTGGCAGCATCATAG
 CTATGGTATTCTTTGTAGTTCTCATTAAGCATTAAATACGCGAGTCAAGTGCATACTTTACAATATAGGCA
 GGTCAAGTTGCTCAACCGTTACTCCAAGCT

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220311 representing NM_001168620
 Red=Cloning site Green=Tags(s)

MIPEFLLASCTLATLCHSAPFSLQPEEQKVLVVSFDGFRWDYLKVPPTPHFHYIMKNGVHVNVQVTVNFIT
 KTYPNHYTLVTGLFAENHGIVANDMFDPIILNKSFSLEHMDIYDSKFWEETPIWITNQRAGHASGAAMWP
 GADVKIHSFPTYLLPYNESVSFEDRVAKIIEWFTAKDPINLGLFYWEPPDDTGHDVGPDSPLMGSVISD
 VDHKLGYLIKMLKRAKLWNNVNLIVTSDHGMTQCSKQRVIELDRYLDKEHYTLIDHSPVAAILPKEGKFD
 EYVDALAGAHPNLTVYKKEEIPERWHYKHNDRVQPIVAVADEGWYILQNKSDDFLLGNHGYDNALAEHMP
 IFLAHGPAFRKNFTKEAMNSTDLYSLLCHLLNLTALPHNGSFWNVQDLLSSATPKPIPYPYQSTTTTTLLGSD
 KPGEDEQEESYPYIIGVSLGSIAMVFFVVLIKHLIRSQVHTLQYRQVEVAQPLLQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_h10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001168620

ORF Size: 1431 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.

RefSeq: [NM_001168620.2](#)

RefSeq Size: 2472 bp

RefSeq ORF: 1434 bp

Locus ID: 83965

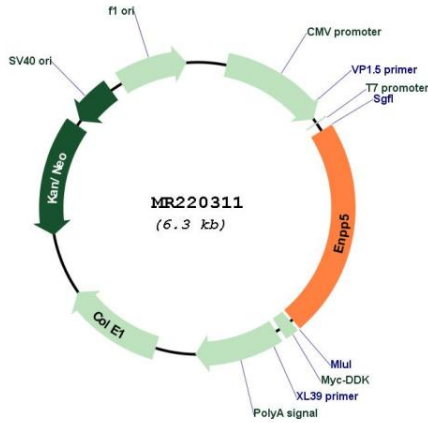
UniProt ID: [Q9EQG7](#)

Cytogenetics: 17 20.3 cM

MW: 54.8 kDa

Gene Summary: Can hydrolyze NAD but cannot hydrolyze nucleotide di- and triphosphates (PubMed:28898552). Lacks lysopholipase D activity. May play a role in neuronal cell communication (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220311