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Product datasheet for RC222768

XPNPEP2 (NM_003399) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XPNPEP2 (NM_003399) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	XPNPEP2
Synonyms:	AEACEI; APP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

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ORF Nucleotide Sequence:

>RC222768 representing NM_003399
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCGGGCTCACTGGGGCTGCTGCCCCTGGCTGGTCCTCCTCTGTGCTTGTGCCTGGGGCCACACAA
AGCCAGTGGACCTTGGAGGGCAGGATGTGAGAAACTGTTCCACCAACCCCCCTTACCTTCCAGTTACTGT
GGTCAATACCACAATGTCACTCACAGCCCTCCGCCAGCAGATGCAGACCCAGAATCTCTCAGCCTACATC
ATCCCAGGCACAGATGCTCACATGAACGAGTACATCGGCCAACATGACGAGAGGCGTGCGTGGATTACAG
GCTTTACAGGGTCTGCAGGAACTGCAGTGGTGACTATGAAGAAAGCAGCTGTCTGGACCGACAGTCGCTA
CTGGACTCAGGCTGAGCGGCAGATGGACTGCAACTGGGAGCTCCATAAGGAAGTTGGCACCACTCCTATT
GTCACCTGGCTCCTCACCGAGATTCCCGCTGGAGGGCGTGTGGGTTTTGACCCCTTCCTCTTGTCCATTG
ACACCTGGGAGAGTTATGATCTGGCCCTCCAAGGCTCTAACAGACAGCTGGTGTCCATCACAACCAATCT
TGTGGACCTGGTATGGGGATCAGAGAGGCCACCGGTTCCAAATCAACCCATTTATGCCCTGCAGGAGGCA
TTCACAGGGAGCACTTGGCAGGAGAAAGTATCTGGCGTCCGAAGCCAGATGCAGAAGCATCAAAAGGTCC
CGACTGCCGTCCTTCTGTCGGCGCTTGAGGAGACGGCCTGGCTCTTCAACCTTCGAGCCAGTGACATCCC
CTATAACCCCTTCTTCTATTCCTACACGCTGCTCACAGACTCTTCTATTAGGTTGTTTGCAAACAAGAGT
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CTATACCATGTATGGGATCTATGAAATGATACCCAAGGAGAAACTCGTGACAGACACCTACTCCCCAGTG
ATGATGACCAAGGCAGTGAAGAACAGCAAGGAGCAGGCCCTCCTCAAGGCCAGCCACGTGCGGGACGCTG
TGGCTGTGATCCGGTACTTGGTCTGGCTGGAGAAGAACGTGCCCAAAGGCACAGTGGATGAGTTCTCGGG
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GCTAGTGGTCTGAATGCTGCCCTGGCCCACTACAGCCCGACCAAGGAGCTGAACCGCAAGCTGTCCTCAG
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CTGGTCTCAATTATGGTCATGGGACAGGCCACGGCATTGGCAACTTCCTGTGTGTGCATGAGTGGCCAGT
GGGATTCCAGTCCAACAACATCGCTATGGCCAAGGGCATGTTCACTTCCATTGAACCTGGTTACTATAAG
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TCCCGAGCATCTCCAGTACCTGAATCGCTACTACCAGACCATCCGGGAGAAGGTGGGTCCAGAGCTGCAG
AGGCGCCAGCTACTAGAGGAGTTCGAGTGGCTTCAACAGCACACAGAGCCCCTGGCCGCCAGGGCCCCAG
ACACCGCCTCCTGGGCCTCTGTGTTAGTGGTCTCCACCCTTGCCATCCTTGGCTGGAGTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC222768 representing NM_003399
Red=Cloning site Green=Tags(s)

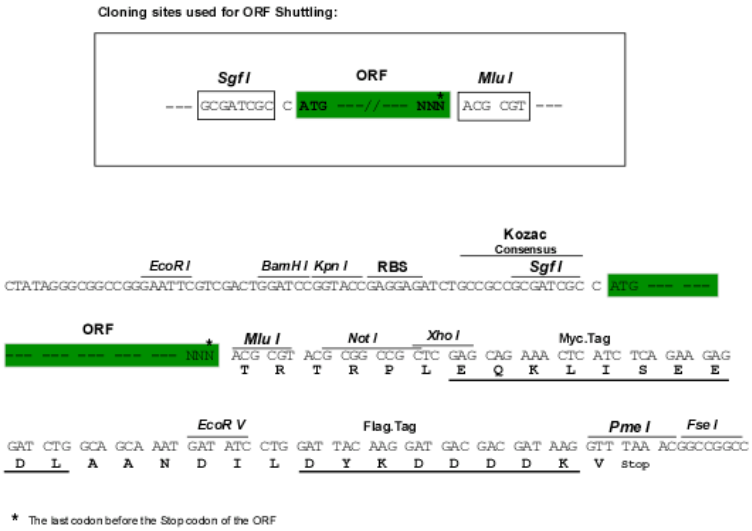
MARAHWGCCPWLVLLCACAWGHTKPVDLGGQDVRNCSTNPPYLPVTVVNTTMSLTALRQQMQTQNLSAYI
IPGTDAHMNEYIGQHDERRAWITGFTGSAGTAVVTMKKAAVWTDSRYWTQAERQMDCNWELHKEVGTTPI
VTWLLTEIPAGGRVGFDPFLLSIDTWESYDLALQGSNRQLVSITTNLVDLVWGSERPPVPNQPIYALQEA
FTGSTWQEKVSGVRSQMQKHQKVPTAVLLSALEETAWLFNLRASDIPYNPFFYSYTLLTDSSIRLFANKS
RFSSETLSYLNSSCTGPMCVQIEDYSQVRDSIQAYSLGDVRIWIGTSYTMYGIYEMIPKEKLVTDTYSPV
MMTKAVKNSKEQALLKASHVRDAVAVIRYLVWLEKNVPKGTVDEFSGAEIVDKFRGEEQFSSGPSFETIS
ASGLNAALAHYSPTKELNRKLSSDEMYLLDSGGQYWDGTTDITRTVHWGTPSAFQKEAYTRVLIGNIDLS
RLIFPAATSGRMVEAFARRALWDAGLNYGHGTGHGIGNFLCVHEWPVGFQSNNIAMAKGMFTSIEPGYYK
DGEFGIRLEDVALVVEAKTKYPGSYLTFEVVSFVPYDRNLIDVSLLSPEHLQYLNRYYQTIREKVGPELQ
RRQLLEEFEWLQQHTEPLAARAPDTASWASVLVVSTLAILGWSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6252_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003399

ORF Size: 2022 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).

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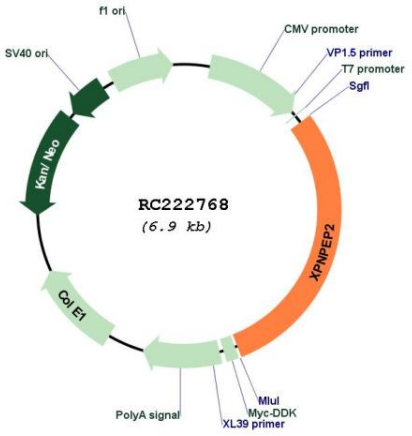
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_003399.6
RefSeq Size:	3329 bp
RefSeq ORF:	2025 bp
Locus ID:	7512
UniProt ID:	O43895
Cytogenetics:	Xq26.1
Protein Families:	Druggable Genome, Protease
MW:	75.4 kDa
Gene Summary:	Aminopeptidase P is a hydrolase specific for N-terminal imido bonds, which are common to several collagen degradation products, neuropeptides, vasoactive peptides, and cytokines. Structurally, the enzyme is a member of the 'pita bread fold' family and occurs in mammalian tissues in both soluble and GPI-anchored membrane-bound forms. A membrane-bound and soluble form of this enzyme have been identified as products of two separate genes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222768

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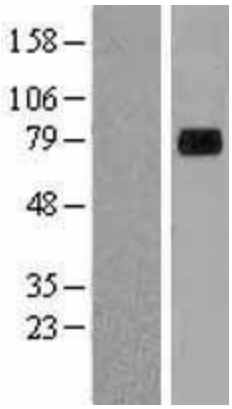
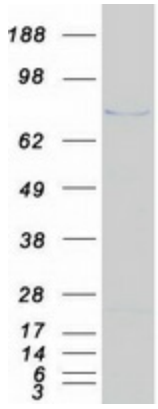


Western blot validation of overexpression lysate (Cat# [LY418716]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222768 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified XPNPEP2 protein (Cat# [TP322768]). The protein was produced from HEK293T cells transfected with XPNPEP2 cDNA clone (Cat# RC222768) using MegaTran 2.0 (Cat# [TT210002]).

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