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Product datasheet for SC123957

XPNPEP2 (NM_003399) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XPNPEP2 (NM_003399) Human Untagged Clone
Tag:	Tag Free
Symbol:	XPNPEP2
Synonyms:	AEACEI; APP2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC123957 sequence for NM_003399 edited (data generated by NextGen Sequencing)

ATGGCCCGGGCTCACTGGGGCTGCTGCCCCTGGCTGGTCCTCCTCTGTGCTTGTGCCTGG
GGCCACACAAAGCCAGTGGACCTTGGAGGGCAGGATGTGAGAAACTGTTCCACCAACCCC
CCTTACCTTCCAGTTACTGTGGTCAATACCACAATGTCACTCACAGCCCTCCGCCAGCAG
ATGCAGACCCAGAATCTCTCAGCCTACATCATCCCAGGCACAGATGCTCACATGAACGAG
TACATCGGCCAACATGACGAGAGGCGTGCGTGGATTACAGGCTTTACAGGGTCTGCAGGA
ACTGCAGTGGTGACTATGAAGAAAGCAGCTGTCTGGACCGACAGTCGCTACTGGACTCAG
GCTGAGCGGCAGATGGACTGCAACTGGGAGCTCCATAAGGAAGTTGGCACCACTCCTATT
GTCACCTGGCTCCTCACCGAGATTCCCGCTGGAGGGCGTGTGGGTTTTGACCCCTTCCTC
TTGTCCATTGACACCTGGGAGAGTTATGATCTGGCCCTCCAAGGCTCTAACAGACAGCTG
GTGTCCATCACAACCAATCTTGTGGACCTGGTATGGGGATCAGAGAGGCCACCGGTTCCA
AATCAACCCATTTATGCCCTGCAGGAGGCATTCACAGGGAGCACTTGGCAGGAGAAAGTA
TCTGGCGTCCGAAGCCAGATGCAGAAGCATCAAAAGGTCCCGACTGCCGTCCTTCTGTCG
GCGCTTGAGGAGACGGCCTGGCTCTTCAACCTTCGAGCCAGTGACATCCCCTATAACCCC
TTCTTCTATTCCTACACGCTGCTCACAGACTCTTCTATTAGGTTGTTTGCAAACAAGAGT
CGCTTTAGCTCCGAAACCTTGAGCTATCTGAACTCCAGTTGCACAGGCCCCATGTGTGTG
CAAATCGAGGATTACAGCCAAGTTCGTGACAGCATCCAGGCCTACTCATTGGGAGATGTG
AGGATCTGGATTGGGACCAGCTATACCATGTATGGGATCTATGAAATGATACCCAAGGAG
AAACTCGTGACAGACACCTACTCCCCAGTGATGATGACCAAGGCAGTGAAGAACAGCAAG
GAGCAGGCCCTCCTCAAGGCCAGCCACGTGCGGGACGCTGTGGCTGTGATCCGGTACTTG
GTCTGGCTGGAGAAGAACGTGCCCAAAGGCACAGTGGATGAGTTCTCGGGGGCAGAGATC
GTGGACAAGTTCCGAGGAGAAGAACAGTTCTCCTCCGGACCCAGTTTTGAAACCATCTCT
GCTAGTGGTCTGAATGCTGCCCTGGCCCACTACAGCCCGACCAAGGAGCTGAACCGCAAG
CTGTCCTCAGATGAGATGTACCTGCTGGACTCTGGGGGGCAGTACTGGGACGGGACCACA
GACATCACCAGAACAGTCCACTGGGGCACCCCCTCTGCCTTCCAGAAGGAGGCATACACC
CGTGTGCTGATAGGAAATATTGACCTGTCCAGGCTCATCTTTCCCGCTGCTACATCAGGG
CGAATGGTGGAGGCCTTTGCCCGCAGAGCCTTGTGGGATGCTGGTCTCAATTATGGTCAT
GGGACAGGCCACGGCATTGGCAACTTCCTGTGTGTGCATGAGTGGCCAGTGGGATTCCAG
TCCAACAACATCGCTATGGCCAAGGGCATGTTCACTTCCATTGAACCTGGTTACTATAAG
GATGGAGAATTTGGGATCCGTCTCGAAGATGTGGCTCTCGTGGTAGAAGCAAAGACCAAG
TACCCAGGGAGCTACCTGACCTTTGAAGTGGTATCATTTGTGCCCTATGACCGGAACCTC
ATCGATGTCAGCCTGCTGTCTCCCGAGCATCTCCAGTACCTGAATCGCTACTACCAGACC
ATCCGGGAGAAGGTGGGTCCAGAGCTGCAGAGGCGCCAGCTACTAGAGGAGTTCGAGTGG
CTTCAACAGCACACAGAGCCCCTGGCCGCCAGGGCCCCAGACACCGCCTCCTGGGCCTCT
GTGTTAGTGGTCTCCACCCTTGCCATCCTTGGCTGGAGTGTCTAG

Clone variation with respect to NM_003399.5
447 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003399 unedited
CGTCAAAATTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGCTCTCCA
CCCAGCAGCCAGACGCCTCCTTCTTGACGCCAGCCCCCACCCTCTGTCTGCTCGAGCCCA
GGAAAGGCCTGAAGGAAGAGGCCGGGGAAAGAGCCCTCCCTCTCTCCCTTGTCCCTCCAT
CCACCCAGCGCCGGCATCTGGAGACCCTATGGCCCGGGCTCACTGGGGCTGCTGCCCCTG
GCTGGTCCTCCTCTGTGCTTGTGCCTGGGGCCACACAAAGCCAGTGGACCTTGGAGGGCA
GGATGTGAGAAACTGTTCCACCAACCCCCCTTACCTTCCAGTTACTGTGGTCAATACCAC
AATGTCACTCACAGCCCTCCGCCAGCAGATGCAGACCCAGAATCTCTCAGCCTACATCAT
CCCAGGCACAGATGCTCACATGAACGAGTACATCGGCCAACATGACGAGAGGCGTGCGTG
GATTACAGGCTTTACAGGGTCTGCAGGAACTGCAGTGGTGACTATGAAGAAAGCAGCTGT
CTGGACCGACAGTCGCTACTGGACTCANGCTGAGCGGCAGATGGACTGCAACTGGGAGCT
CCATAAAGAAGTTGGCACCACTCCTATTGTCACCTGGCTCCTCACCGAGATTCCCGCCTG
GAGGCGTGTGGGTTTTGACCCCTTCCTCTTGTTCCTTGACACCTGGGAGAGTTATGATCT
GGCCCTCAAAGGCTCTACAAACACTGGGGTCCATAACACCAATCTTGTGGACTGGTATGG
GGATCCAAAAGGCACCCGTTTCCAATCAACCCATTTTGCCCTGCGGGAGGGCATCCCAGG
GAGCACTGGGCGGAGAAAGAACTGGGCTCCCCAACCCCAATCCGAAACCCCAAAGGGTCC
CGACTGGGGGCCTTTTGTGGGGCGCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003399 unedited
NATGCCTGCATGTAACTTCCAGGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCA
CCCGGGATCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTT
TTTTTGTTTTTCTTTGTTAGGCTGTTTTAAACGTCTTAGCAGGATGTGGACCCAGGTGGC
TAACGGCCAATTTGGCCGGAGCAAATTCTTCTCACCACAGTGGGTTCAGAGAATGAGGAG
AGGGCTGGGAGGTGGGCTCAGGGACTCTGCATGTTGCTGAAGGGTGAAAGAGCTGGAATG
CTGGCTCATCTGGCCCCATCAACTCCCAACCAAATTTGTGTGTCCTTAGGCAAAGCCCAC
CCCCTGTCTGAAGCTCAGTTTTCCTGTCTGTAAAATGGAGAAACCAGACACTGTCCACAC
AAGGTGAAGGGGCATCCAAGAATGTGGGAGGATTTAACAGCATTGTAGCTGTGGCTGCAC
TTTGGAAAGTTCAAAGGGCTCCTCGAATGCCAGGGAAGTCTAGAATAGTGACGGGTTCCG
GCTGCCCAAGTTTGTTCTCCAACCTCTGGTAGGGTCATATTCCAGAGTGCCTCACCGCAT
TCCCTCTTACTCCACAGCCAAATTCCTATGGCTTAACTCCCTCTGCTGTTACTTGGCATG
GAGCCTACCCAGGGTTTAGGAATGATGGGTTCACATGTGGGGGNGTGATGTTTCATGCNN
CTGCTGGNTGGAACAGCTCTGCTATGCCCACAGGTTGTGAAGTTTGGCTCTCCNGACCAT
GCACCCTTGGTTGTNGGCATTGTTCTTTGGT

Restriction Sites: Please inquire

ACCN: NM_003399

Insert Size: 3900 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003399.4, NP_003390.3
RefSeq Size:	3329 bp
RefSeq ORF:	2025 bp
Locus ID:	7512
UniProt ID:	O43895
Cytogenetics:	Xq26.1
Protein Families:	Druggable Genome, Protease
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]