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Product datasheet for SC110882

Aminopeptidase A (ENPEP) (NM_001977) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aminopeptidase A (ENPEP) (NM_001977) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aminopeptidase A
Synonyms:	APA; CD249; gp160
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC110882 sequence for NM_001977 edited (data generated by NextGen Sequencing)

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ATGAACTTTGCGGAGAGAGAGGGCTCTAAGAGATACTGCATTCAAACGAAACATGTGGCC
ATTCTCTGTGCGGTGGTGGTGGGTGTAGGATTAATAGTGGGACTTGCCGTGGGCTTGACC
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GCAACTTATACAATATCTATCACCCATCCCAAAGAATACGGAGCACTTTCAAATATGCCA
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GGATGTCAGATGTACTTGGAAAAATACCAATTCAAGAATGCAAAAACTTCTGATTTTTGG
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Clone variation with respect to NM_001977.3
653 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001977 unedited
GGTGCGATTTTGTAATACGATTTCACTATAGGGCGGCCGCGATTCGGCACGAGGCTTCCT
CCCACTCGGCTCCTCTTACGGAGTCCTCATTCCACCCCCCTTGTTTCCGCATTCATCCTG
AGTGGCTGGTGGGAACGTGAAAAGGGAGAGGAAAAGGCGCAAGAAGCCAGAGAGAGGGGT
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CTGCTGACGTTAGTTAGTTAAATTTAACATCTTTTTATGTGTAACACTTGACTTTGGAAG
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TGGCCATTCTCTGTGCGGTGGTGGTGGGTGTAGGATTAATAGTGGGACTTGCCGTGGGCT
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CCAGGATCACCCGGCTCCCGGAGCTGAAGAGGCCCTCTTGGGACCAGGTGNCAGTCCGGA
GGTGTTTCGAGTACAAAAGCAAGAGTACGTTGTTGTCCGAGCGGGAGGAGAACTTTACCC
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CCCTCGTGGGATTTATTGAACCACCTACCCGAGAAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001977 unedited
CGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTCAAGAAATCATTTAGATTTAT
TTTTAAAAAAAGAGGAGAGTTCTCTTATTGATTTTATAAGAGCAAAGGCAACAGTCAGCC
ATTCTTTTGGCTAATTCATATGATCCTCAAGTAAAACTTAAGCCCAGGTTACTTTGGTAG
GATTTAAAGTAGTAAGACATATGTGAATAAAATGATATTAGGTCTGTATAATTCTGAATA
ATAAAATAAAGATTAAGATGGTAATATTGGTCCCTCAAGTACTGGTATTTAAACTTTAAA
AATCAATCAAGAGAGAAGATTAAGTGGTGTTTCTTTGGTACTGAAAATGTAAAGCTAAGA
CCAAATTGTTCTACTTCACAGATTTAAGATACAAAGAATGATATTTAAAGGTATTAAAAT
AACTATTTCATTATCTTCAGTTTGTAAAGAATATCTTATGAAGTACACTTAGAAGGAATC
CCTGAGTATATTAAGTACTCTATTAGTATCTTTCTTCATAAACAAAGAGGAACAATTTAA
AGGCTTTGCAAGACATATAAACACAGTGCTTAGTAAAAGCATTATCTGTTTATAAGGCTC
TCTCCATCGTGCTTGTAAATTAGGCCACCAAATGCTCCAGAGGAGAAACAATAGATCCAC
ACAATTAAACTCTAACATTTGAATACATTAACCACTCTCAAGTAAATTAAAAAACCATTC
TCTGATGGCGCTTCTATGTTGCTNTAGCCACCCTATATTGTTTTTCACTGCTTCCAGCAC
TTGTTCCCTAGGTCTTTCTCCTGGTCCACCTCGGGNATATCTTCGCACAAAGCTCCTCAT
CTGCCCAGCCGAGTTTCGTGTCGCATGGCTTCGTTTTGGGACAATCGGCCCCGGTTCCGC
TCTCGACGTACTCTGGCGCCCCAAACCCCAGCGCCCTGTTTCACACCCAGCCCGGCCTTT
TATTACTGCCCCCCAAAT

Restriction Sites: NotI-NotI

ACCN: NM_001977

Insert Size: 4020 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_001977.2, NP_001968.2

RefSeq Size: 3829 bp

RefSeq ORF: 2874 bp

Locus ID: 2028

UniProt ID: Q07075

Cytogenetics: 4q25

Domains: Peptidase_M1

Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane
Protein Pathways:	Renin-angiotensin system
Gene Summary:	The ENPEP gene encodes glutamyl aminopeptidase, a type II integral membrane protein with an extracellular zinc-binding domain. This protein can upregulate blood pressure by cleaving the N-terminal aspartate from angiotensin II, and can regulate blood vessel formation and enhance tumorigenesis in some tissues. Along with ANPEP and DPP4, ENPEP was found to be a candidate co-receptor for the coronavirus SARS-CoV-2, which causes COVID-19. [provided by RefSeq, Apr 2020]