

## Product datasheet for **SC112795**

### **XPNPEP3 (NM\_022098) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	XPNPEP3 (NM_022098) Human Untagged Clone
Tag:	Tag Free
Symbol:	XPNPEP3
Synonyms:	APP3; ICP55; NPHPL1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC112795 sequence for NM\_022098 edited (data generated by NextGen Sequencing)

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ATGCCTTGGCTGCTCTCAGCCCCAAGCTGGTCCCGCTGTAGCAAACGTCGCGGCCTC
TCAGGATGTATGTTGTGTTACACAGCAAGGTAAGTCCCTCAGCCTGTCCCAGAAAGGAGG
ATTCCAAACCGATACTTAGGCCAGCCAGCCCCTTACACACCCACACCTCCTCAGACCA
GGGGAGGTAACCTCAGGACTATCTCAGGTGGAATATGCACTTCGACAGACAAAACATATG
TCTCTGATCCAGAAGGAAGCTCAAGGGCAGAGTGGGACAGACCAGACAGTGGTTGTGCTC
TCCAACCTACATACTACATGAGCAACGATATTCCTTATCTTTCCACCAAGACAACAAT
TTCTGTACCTATGTGGATTCCAAGAGCCTGATAGCATTCTTGTCTTCAGAGCCTCCCT
GGCAAACAATTACCATCACACAAAGCCATACTTTTTGTGCTCGGCGAGATCCCAGTCGA
GAACCTTTGGGATGGTCCGCGATCTGGCACTGATGGAGCAATAGCTCTAACTGGAGTAGAC
GAAGCCTATACGCTAGAAGAATTTCAACATCTTCTACCAAAAATGAAAGCTGAGACGAAC
ATGTTTTGGTATGACTGGATGAGGCCCTCACATGCACAGCTTCACTCTGACTATATGCAG
CCCCTGACTGAGCCAAAGCCAAGAGCAAGAACAAGGTTCCGGGTGTTCCAGCAGTGATA
CAGCGCCTCCGGCTGATCAAGTCTCCTGCAGAAATTGAACGAATGCAGATTGCTGGGAAG
CTGACATCACAGGCTTTCATAGAAACCATGTTCCACAGTAAAGCCCTGTGGAAGAAGCC
TTTTTTATGCTAAGTTTGAATTTGAATGCCGGGCTCGTGGCGCAGACATTTTAGCCTAT
CCACCTGTGGTGGCTGGTGGTAATCGGTCAAACACTTTGCACTATGTGAAAAATAATCAA
CTCATCAAGGATGGGAAATGGTGTCTTGGATGGAGGTTGTGAGTCTTCTCCTGCTATGTG
AGTGACATCACACGTACGTGGCCAGTCAATGGCAGGTTCAACGCACCTCAGGCAGAACTC
TATGAAGCCGTTCTAGAGATCCAAGAGATTGTTGGCCCTCTGCTTCCCTGGGACAAGC
TTGGAGAACATCTACAGCATGATGCTGACCCTGATAGGACAGAAGCTTAAAGACTTGGGG
ATCATGAAGAACATTAAGGAAAAATATGCCTTCAAGGCTGCTCGAAAAACTGTCTCCAT
CATGTTGGCCACTACCTCGGGATGGATGTCCATGACACTCCAGACATGCCCGTTCCCTC
CCTCTGCAGCCTGGGATGGTAATCACAATTGAGCCCGCATTATATTCCAGAGGATGAC
AAAGATGCCCCAGAGAAGTTTCGGGGTCTTGGTGTACGAATTGAGGATGATGTAGTGGT
ACTCAGGACTCACCTCTCATCTTTCTGCAGACTGTCCCAAAGAGATGAATGACATTGAA
CAGATATGCAGCCAGGCTTCTTGA
    
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Clone variation with respect to NM\_022098.3

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_022098 unedited
GTGGCGGCACAAAACCTTCGGCAGAGGGTTGCGTTCGCCGTCGTTACCCTCTTTCTTTC
CCGACGCGTGAGTTAGGCCGTAATGCCTTGGCTGCTCTCAGCCCCAAGCTGGTTCGCCG
TGTAAGCAAACGTCGCGGCCCTCAGGATGTATGTTGTGTTACACAGCAAGGTAAGTCCCT
TCAGCCTGTTCTAGTTAGGAGGATTCAAACCGATACTTAGGCCAGCCAGCCCCTTTAC
ACACCCACACCTCCTCAGACCAGGGGAGGTAACCTCAGGACTATCTCAGGTGGAATATGC
ACTTCGACAGACACTAACTAATGTCTCTGATCCAGAAGGAAGCTCAAGGGCAGAGTGGGAC
AGACCAGACAGTGGTTGTGCTCTCCAACCTACATACTACATGAGCAACGATATTCCTA
TACTTTCCACCAAGACAACAATTTCTGTACCTATGTGGATTCCAAGAGCCTGATAGCAT
TCTTGTCTTCAGAGCCTCCCTGGCAAACAATTACCATCACACAAAGCCATACTTTTTGT
GCCTCGGCGAGATCCCAGTCGAGAACTTTGGGATGGTCCGCGATCTGGCACTGATGGAGC
AATAGCTCTAACTGGAGTAGACGAAGCCTATACGCTAGAAGAATTTCAACATCTGCTACC
ANAAATGAAAGCTGAGACGAACATGGTTTTGGTATGACTGGATGANGCCCTCACATGCACA
GCTTCACTCTGACTATATGCAGCCCCCTGACTGATGCCAAAGCCAAGAGCCAGAACAAG
TTCCGGGGTGTTCAGCAGCTGATACAGCGCCTCCCGCTGATCAAGTCTCCTGCAGAAAT
GACGAATGCAAATTTGCTGGGAAGCTGACATCAAAGCTTTCTAAGAAACCTGTTTACCA
GTATAGCCCTG
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_022098 unedited CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTGGCAGGATGTCAGGATTTTATTTAT TTATTTGGTTTTTTGAGGCAGAGTCTTGCTCAGTCACCCAGGCTGGAGTGCAGTCGCATG AGCTCAGCTCACTGCAACCTCCACCTCCCAGGTTCAAGCAATTCTCATGCCTCAGCCTCC CAAGTAGCCAGGATTACAGGCATGTATCATCACACCCAGCTCATTTTTGTATTTTAGTA GAGACAGTGTTCACCACGTTGGCCAGGCTGGTCTTGACCTCCTGGTCTCAAGAGATCCA CCTGCCTGGACCTCCCAAGTGTGGGATTACAGGCGGAACCGCTGTGCCAGCCCTGAT GTCTGGATCTTTAGTATATACATATATAATTTTCTTTCTTCCATTTCCATCTTTATCA AGAATCTAAACACTTTCCAGGTCCCAGGCAACCAATGGCAAGAAAAGCTCAGAAGTGTT TTGTTTGGTAAGTAGCTAGTGTTGCTGGAACCTGGACTGTGGCTGACTAGTAAGACTGCA GGACACCAGTGCCCTGAGGGCTCATATGGCTCCAGTAGATATGCAGGATCTANAATAGG TAAGGAGGAGCTACAGAAAGTATGTATTGGCCGCCACAACACCGAAAGATGAATCTTGG ATAGGCAGAGACCTTGGTATTAACCAAAAATCAGGCATCCACAACTTCTATGAAATGGG GTGACCCACCAAAGTTAAAAGGAAAGACCTGAAGAAAAGGGACTTTCCTTTGGTTAATG GGTACCGGATGCCCGGACTGGGAACCAACCTTAGGTAACAAAACCGGCCGGACTTATC CATAAATAAAGGGCCAACTGCGACCACCTTCAAATCTTCCACCTCACTCCTAAAAAA ACCCACCATTCTCTGCCCTGTTGCCAAGGATGCTTTTAGCCCCCAACCCTAAT ACC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_022098
<b>Insert Size:</b>	2680 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_022098.2</a> , <a href="#">NP_071381.1</a>
<b>RefSeq Size:</b>	3060 bp
<b>RefSeq ORF:</b>	1524 bp
<b>Locus ID:</b>	63929
<b>UniProt ID:</b>	<a href="#">Q9NQH7</a>
<b>Cytogenetics:</b>	22q13.2
<b>Domains:</b>	Peptidase_M24, AMP_N

**Protein Families:** Druggable Genome, Protease

**Gene Summary:** The protein encoded by this gene belongs to the family of X-pro-aminopeptidases that utilize a metal cofactor, and remove the N-terminal amino acid from peptides with a proline residue in the penultimate position. This protein has been shown to localize to the mitochondria of renal cells, and have a role in ciliary function. Mutations in this gene are associated with nephronophthisis-like nephropathy-1. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene, however, expression of some of these isoforms in vivo is not known.[provided by RefSeq, Mar 2011]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1, also known as APP3m). This isoform has been shown to be localized to the mitochondria (PMID:20179356). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.