

Product datasheet for **SC324449**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_022098.2
 GGCCCTGCAGGCGGTTGCGTTCCCCGTCGTTACCCTCTTTCTCTTCCCGACGCGTGAGTT
 AGGCCGTAATGCCTTGGCTGCTCTCAGCCCCAAGCTGGTTCGCTGTAGCAAACGTCC
 GCGGCCTCTCAGGATGTATGTTGTGTTACAGCGAAGGTAAGTCCCTTCAGCCTGTCCCAG
 AAAGGAGGATCCAAACCGATACTTAGGCCAGCCAGCCCCTTTACACACCCACACCTCC
 TCAGACCAGGGGAGGTAAGTCCAGGACTATCTCAGGTGGAATATGCACTTCGAGACACA
 AACTAATGTCTCTGATCCAGAAGGAAGCTCAAGGCAGAGTGGGACAGACCAGACAGTGG
 TTGTGCTCTCAACCCTACATACTACATGAGCAACGATATTCCCTATACTTTCCACCAAG
 ACAACAATTTCTGTACCTATGTGGATTCCAAGAGCCTGATAGCATTCTTGCCTTCAGA
 GCCTCCCTGGCAAACAATTACCATCACACAAAGCCATACTTTTTGTGCCTCGGCGAGATC
 CCAGTCGAGAAGTTGGGATGGTCCGCGATCTGGCACTGATGGAGCAATAGCTCTAACTG
 GAGTAGACGAAGCCTATACGCTAGAAGAATTTCAACATCTTACCAAAAATGAAAGCTG
 AGACGAACATGGTTTGGTATGACTGGATGAGGCCCTCACATGCACAGCTTCACTCTGACT
 ATATGCAGCCCCTGACTGAGGCCAAAGCCAAGAGCAAGAACAAGTTTCGGGGTGTTCAGC
 AGCTGATACAGCGCCTCCGGCTGATCAAGTCTCCTGCAGAAATTGAACGAATGCAGATTG
 CTGGGAAGCTGACATCACAGGCTTTCATAGAAACCATGTTCAACCAGTAAAGCCCTGTGG
 AAGAAGCCTTTCTTTATGCTAAGTTTGAATTTGAATGCCGGGCTCGTGGCGCAGACATTT
 TAGCCTATCCACCTGTGGTGGCTGGTGAATCGGTCAAACACTTTGCACTATGTGAAAA
 ATAATCAACTCATCAAGGATGGGAAAATGGTGTCTTGGATGGAGGTTGTGAGTCTTCT
 GCTATGTGAGTGACATCACACGTACGTGGCCAGTCAATGGCAGGTTACCCGCACCTCAGG
 CAGAACTCTATGAAGCCGTTCTAGAGATCCAAAGAGATTGTTGGCCCTGTCTCCCTG
 GGACAAGCTTGGAGAACATCTACAGCATGATGCTGACCCTGATAGGACAGAAGCTTAAAG
 ACTTGGGATCATGAAGAACATTAAGGAAAATAATGCCTTCAAGGCTGCTCGAAAATACT
 GTCCTCATCATGTTGGCCACTACCTCGGGATGGATGTCCATGACACTCCAGACATGCCCC
 GTTCCCTCCCTCTGCAGCCTGGGATGGTAATCACAATTGAGCCCGCATTATATTTCCAG
 AGGATGACAAAGATGCCCCAGAGAAGTTTCGGGGTCTTGGTGTACGAATTGAGGATGATG
 TAGTGGTGACTCAGGACTCACCTTTTCTCTTCTGCAGACTGTCCCAAAGAGATGAATG
 ACATTGAACAGATATGCAGCCAGGCTTCTTACCTTCACTGCGGCCACATGCACCTCAG
 GTTCAAATGGGTGTCTTCTGGCAGCCCTGCACGTGTGCTTCTGAGTGTCTGTGTGT
 GCATTAATATATGCATTCCATTTGGGAGCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAA

Restriction Sites: Please inquire

ACCN: NM_022098

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_022098.2](#), [NP_071381.1](#)

RefSeq Size: 3060 bp

RefSeq ORF: 1524 bp

Locus ID: 63929

UniProt ID: [Q9NQH7](#)

Cytogenetics: 22q13.2

Domains: 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.