

Product datasheet for **RC235420**

XPNPEP3 (NM_001204827) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: XPNPEP3 (NM_001204827) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: XPNPEP3
Synonyms: APP3; ICP55; NPHPL1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235420 representing NM_001204827
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCTTGGCTGCTCTCAGCCCCAAGCTGGTCCCGCTGTAGCAAACGTCCGCGCCTCTCAGGGTCTT
ACTTTGTCACCCAAGCTGGAGTGCAGTGGCGTGATCCATTACACTGCAACCTATGTCTCCAGGCTCAA
GCAGTCTTCTACCAGCTTCCCGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235420 representing NM_001204827
Red=Cloning site Green=Tags(s)

MPWLLSAPKLVPAVANVRGLSGSYFVTQAGVQWRDPITLQPMSSRLKQSFYQLPE

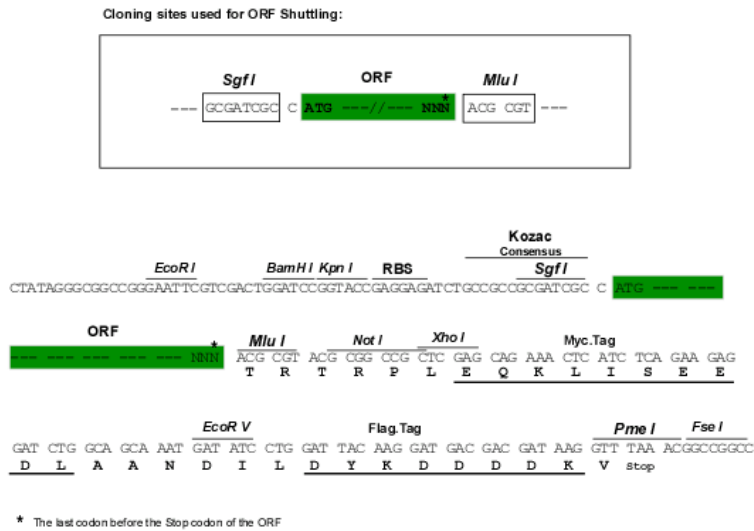
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

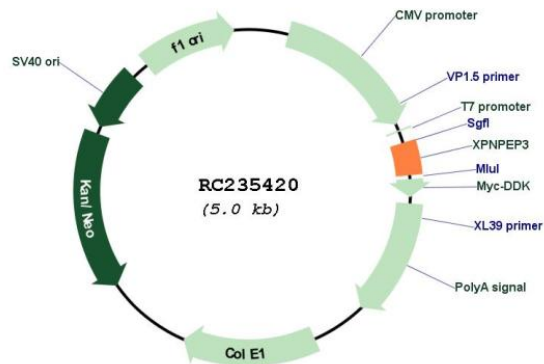


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001204827
 ORF Size: 165 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).
Reconstitution Method:	<ol style="list-style-type: none">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_001204827.1 , NP_001191756.1
RefSeq Size:	1462 bp
RefSeq ORF:	168 bp
Locus ID:	63929
Cytogenetics:	22q13.2
Protein Families:	Druggable Genome, Protease
MW:	6.6 kDa
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]