

## Product datasheet for **SC122691**

### NAPSIN A (NAPSA) (NM\_004851) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NAPSIN A (NAPSA) (NM\_004851) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** NAPSIN A  
**Synonyms:** KAP; Kdap; NAP1; NAPA; SNAPA  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_004851 edited  
GACACCCAGGTCCTCCAGCGATGTCTCCACCACCGCTGCTGCAACCCTGTGCTGCTGCTGCT  
GCCTCTGCTGAATGTGGAGCCTTCGGGGCCACACTGATCCGCATCCCTTTCATCGAGT  
CCAACCTGGACGACGACCCTGAACCTACTGAGGGGATGGAGAGAACCAGCAGAGCTCCC  
CAAGTTGGGGGCCCATCCCCTGGGGACAAGCCATCTTCGTACCTCTCTCGAACTACAG  
GGATGTGCAGTATTTGGGAAATTGGGCTGGGAACGCCTCCACAAAACCTCACTGTTGC  
CTTTGACACTGGCTCCTCCAATCTCTGGGTCCCGTCCAGGAGATGCCACTTCTCAGTGT  
GCCCTGTGGTTACACCACCGATTTGATCCCAAAGCCTTAGCTCCTCCAGGCCAATGG  
GACCAAGTTTGCCATTCAATATGGAACGGGCGGTAGATGGAATCCTGAGCGAGGACAA  
GCTGACTATTGGTGAATCAAGGTGCATCAGTGATTTTCGGGGAGGCTCTCTGGGAGCC  
CAGCCTGGTCTTCGCTTTTGCCATTTTGATGGGATATTGGCCTCGGTTTTCCATTCT  
GTCTGTGGAAGGAGTTCGGCCCCGATGGATGTACTGGTGGAGCAGGGGCTATTGGATAA  
GCCTGTCTTCTCCTTTTACCTCAACAGGGACCCTGAAGAGCCTGATGGAGGAGAGCTGGT  
CCTGGGGGGCTCGGACCCGGCACACTACATCCCACCCCTCACCTTCGTGCCAGTACGGT  
CCCCGCCACTGGCAGATCCACATGGAGCGTGTGAAGGTGGGCCAGGGCTGACTCTCTG  
TGCCAAGGGCTGTGCTGCCATCCTGGATACGGGCACGTCCTCATCACAGGACCCACTGA  
GGAGATCCGGGCCCTGCATGCAGCCATTGGGGGAATCCCTTGTGGCTGGGGAGTACAT  
CATCCTGTGCTCGGAAATCCCAAAGCTCCCCGAGTCTCCTTCTTTGGGGGGTCTG  
GTTTAACCTCACGGCCATGATTACGTCATCCAGACTACTCGAAATGGCGTCCGCTCTG  
CTTGCCGGTTTTCCAGGCCCTGGATGTCCTCCGCTGCAGGGCCTTCTGGATCCTCGG  
TGACGTCTTCTGGGGACGTATGTGGCCGTCTTCGACCGCGGGGACATGAAGAGCAGCGC  
CCGGGTGGCCTGGCGCGCTCGCACTCGCGGAGCGGACCTCGGATGGGGAGAGACTGC  
GCAGGCGCAGTTCCCCGGGTGACGCCAAGTGAAGCGCATGCGCAGCGGGTGGTCGCGGA  
GGTCTGCTACCCAGTAAAAATCCACTATTTCCATTGGAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_004851 unedited GGAGTTGGGATTTGTAATACGACTTTATATAGGGCGGCGCGAATTCGCCATTACGGCC GGGGGACACCCAGGTCCCCAGCGATGTCTCCACCACCGCTGTGCAACCCTGCTGCTGC TGCTGCCTCTGTGAATGTGGAGCCTCCGGGGCCACACTGATCCGCATCCCTCTTCATC GAGTCCAACCTGGACGCAGGACCCTGAACCTACTGAGGGGATGGAGAGAACCAGCAGAGC TCCCAAGGTGGGGCCCCATCCCCTGGGACAAGCCCATCTTCGTACCTCTCTCGAACT ACAGGGATGTGCAGTATTTTGGGAAATTGGGCTGGGAACGCCTCCACAAAACCTCACTG TTGCCTTTGACACTGGCTCCTCCAATCTCTGGTCCCGTCCAGGAGATGCCACTTCTTCA GTGTGCCCTGCTGGTTACACCACCGATTTGATCCCAAAGCCTCTAGCTCCTTCCAGGCCA ATGGGACCAAGTTTGCCATTCAATATGGAAGTGGGCGGGTAGATGGAATCCTGAGCGAGG ACAAGCTGACTATTGGTGAATCAAGGGTGCATCAGTGATTTTCGGGGAGGCTCTCTGGG AGCCACGCTGGTCTTCGCTTTTGGCCATTTTGTGGGATATTGGGCTCGGTTTTCCCA TTCTGTCTGTGGAAGGAGTTCGGCCCCGATGGATGACTGGTGGAGCAGGGGCTATTGG ATAAGCCTGTCTTCTCTTTTACCTCANCAGGGACCCTGAAAAGCCTGATGGAGGAGACT GGGTCTGGGGGGCTCCGACCCGGCACACTACATCCCACCCTCACCTTCGTGCCAGTCAC GGTCCCNNGGCTACTGGCAGATCCACATGGAGCGTGTGAAAGGTGGGCCCCAGGGCTGAC TCTCTGGTGGCAAGGGCTGTGCTGCA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004851
<b>Insert Size:</b>	1389 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_004851.1</a> , <a href="#">NP_004842.1</a>
<b>RefSeq Size:</b>	1438 bp
<b>RefSeq ORF:</b>	1263 bp
<b>Locus ID:</b>	9476
<b>UniProt ID:</b>	<a href="#">O96009</a>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Protein Pathways:</b>	Lysosome

**Gene Summary:**

This gene encodes a member of the peptidase A1 family of aspartic proteases. The encoded preproprotein is proteolytically processed to generate an activation peptide and the mature protease. The activation peptides of aspartic proteinases function as inhibitors of the protease active site. These peptide segments, or pro-parts, are deemed important for correct folding, targeting, and control of the activation of aspartic proteinase zymogens. The encoded protease may play a role in the proteolytic processing of pulmonary surfactant protein B in the lung and may function in protein catabolism in the renal proximal tubules. This gene has been described as a marker for lung adenocarcinoma and renal cell carcinoma. [provided by RefSeq, Feb 2016]