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Product datasheet for RG204715

NAPSIN A (NAPSA) (NM_004851) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAPSIN A (NAPSA) (NM_004851) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NAPSIN A
Synonyms:	KAP; Kdap; NAP1; NAPA; SNAPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG204715 representing NM_004851
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTCCACCACCGCTGCTGCAACCCCTGCTGCTGCTGCTGCCTCTGCTGAATGTGGAGCCTTCCGGGG
CCACACTGATCCGCATCCCTCTTCATCGAGTCCAACCTGGACGCAGGACCCTGAACCTACTGAGGGGATG
GAGAGAACCAGCAGAGCTCCCCAAGTTGGGGGCCCCATCCCCTGGGGACAAGCCCATCTTCGTACCTCTC
TCGAACTACAGGGATGTGCAGTATTTTGGGGAAATTGGGCTGGGAACGCCTCCACAAAACTTCACTGTTG
CCTTTGACACTGGCTCCTCCAATCTCTGGGTCCCGTCCAGGAGATGCCACTTCTTCAGTGTGCCCTGCTG
GTTACACCACCGATTTGATCCCAAAGCCTCTAGCTCCTTCCAGGCCAATGGGACCAAGTTTGCCATTCAA
TATGGAACTGGGCGGGTAGATGGAATCCTGAGCGAGGACAAGCTGACTATTGGTGGAATCAAGGGTGCAT
CAGTGATTTTCGGGGAGGCTCTCTGGGAGCCCAGCCTGGTCTTCGCTTTTGCCCATTTTGATGGGATATT
GGGCCTCGGTTTTCCCATTCTGTCTGTGGAAGGAGTTCGGCCCCCGATGGATGTACTGGTGGAGCAGGGG
CTATTGGATAAGCCTGTCTTCTCCTTTTACCTCAACAGGGACCCTGAAGAGCCTGATGGAGGAGAGCTGG
TCCTGGGGGGCTCGGACCCGGCACACTACATCCCACCCCTCACCTTCGTGCCAGTCACGGTCCCCGCCTA
CTGGCAGATCCACATGGAGCGTGTGAAGGTGGGCCCAGGGCTGACTCTCTGTGCCAAGGGCTGTGCTGCC
ATCCTGGATACGGGCACGTCCCTCATCACAGGACCCACTGAGGAGATCCGGGCCCTGCATGCAGCCATTG
GGGGAATCCCCTTGCTGGCTGGGGAGTACATCATCCTGTGCTCGGAAATCCCAAAGCTCCCCGCAGTCTC
CTTCCTTCTTGGGGGGGTCTGGTTTAACCTCACGGCCCATGATTACGTCATCCAGACTACTCGAAATGGC
GTCCGCCTCTGCTTGTCCGGTTTCCAGGCCCTGGATGTCCCTCCGCCTGCAGGGCCCTTCTGGATCCTCG
GTGACGTCTTCTTGGGGACGTATGTGGCCGTCTTCGACCGCGGGGACATGAAGAGCAGCGCCCGGGTGGG
CCTGGCGCGCGCTCGCACTCGCGGAGCGGACCTCGGATGGGGAGAGACTGCGCAGGCGCAGTTCCCCGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

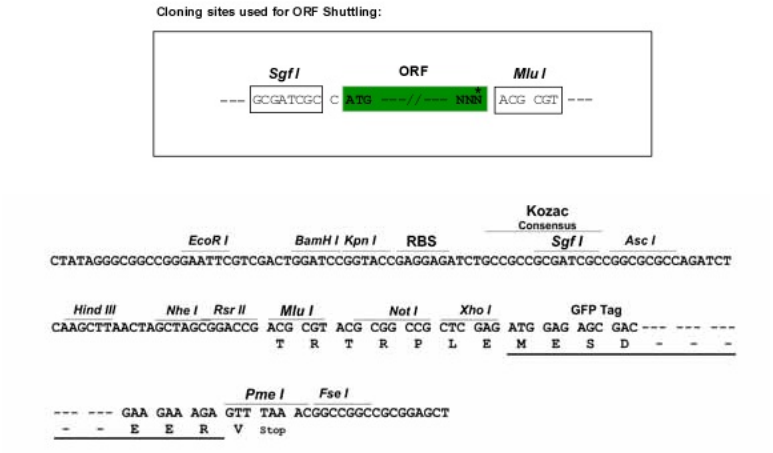
>RG204715 representing NM_004851
Red=Cloning site Green=Tags(s)

MSPPPLLQPLLLLLPLLNVEPSGATLIRIPLHRVQPGRRTLNLLRGWREPAELPKLGAPSPGDKPIFVPL
SNYRDVQYFGEIGLGTPPQNFTVAFDTGSSNLWVPSRRCHFFSVPCWLHHRFDPKASSSFQANGTKFAIQ
YGTGRVDGILSEDKLTIGGIKGASVIFGEALWEPSLVFAFAHFDGILGLGFPILSVEGVRPPMDVLVEQG
LLDKPVFSFYLNRDPEEPDGGELVLGGSDPAHYIPPLTFVPVTVPAYWQIHMERVKVGPGLTLCAKGCAA
ILDTGTSLITGPTEEIRALHAAIGGIPLLAGEYIILCSEIPKLPAVSFLLGGVWFNLTAHDYVIQTTRNG
VRLCLSGFQALDVPPPAGPFWILGDVFLGTYVAVFDRGDMKSSARVGLARARTRGADLGWGETAQAQFPG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004851

ORF Size: 1260 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: 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_004851.1, NP_004842.1

RefSeq Size: 1438 bp

RefSeq ORF: 1263 bp

Locus ID: 9476

UniProt ID: O96009

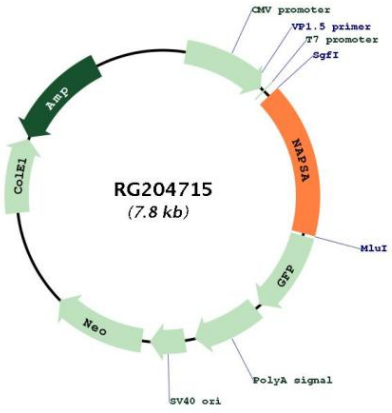
Cytogenetics: 19q13.33

Protein Families: Druggable Genome, Protease

Protein Pathways: 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]

Product images:



Circular map for RG204715