

NAPA cDNA

Catalog Number: ATGD0071

PRODUCT INFORMATION

Catalog number

ATGD0071

Product type

cDNA

Species

Human

NCBI Accession No.

NP_003818.2

Alternative Names

N-ethylmaleimide-sensitive factor attachment protein alpha, NSF attachment protein alpha, SNAPA, SNAP-alpha

mRNA Refseq

NM_003827.3

OMIM

603215

Chromosome location

19q13.33

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

888bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

NAPA cDNA

Catalog Number: ATGD0071

NAPA is one of the SNAP (Soluble NSF Attachment Protein) family. SNAPs, acting in concert with SNAREs (SNAP receptors) and the N-ethylmaleimide-sensitive fusion protein (NSF), are required for the fusion of transport vesicles to their target membranes in synaptic transmission, intra-Golgi transport, endosome-to-endosome fusion and transcytotic vesicles-to-plasma membrane transport. This protein mediates the binding of NSF and thus the formation of a 20S fusion particle. It is expressed in all mammalian tissues.

DATA

Sequence nucleotides

```
ATGGACAATT CCGGGAAGGA AGCGGAGGCG ATGGCGCTGT TGGCCGAGGC GGAGCGCAAA GTGAAGAACT
CGCAGTCCTT CTTCTCTGGC CTCTTTGGAG GTCATCCAA AATAGAGGAA GCATGCGAAA TCTACGCCAG
AGCAGCAAAC ATGTTCAAAA TGGCCAAAAA CTGGAGTGCT GCTGGAAACG CGTTCTGCCA GGCTGCACAG
CTGCACCTGC AGCTCCAGAG CAAGCACGAC GCAGCCACCT GCTTTGTGGA CGCTGGCAAC GCATTCAAGA
AAGCCGACCC CCAAGAGGCC ATTAAGTGTG TGATGCGAGC AATCGAGATC TACACAGACA TGGGCCGATT
CACGATTGCG GCCAAGCACC ACATCTCCAT TGCTGAGATC TATGAGACAG AGTTGGTGGG CATCGAGAAG
GCCATTGCCC ACTACGAGCA GTCTGCAGAC TACTACAAAG GCGAGGAGTC CAACAGCTCA GCCAACAAGT
GTCTGCTGAA GGTGGCTGGT TACGCTGCGC TGCTGGAGCA GTATCAGAAG GCCATTGACA TCTACGAACA
GGTGGGGACC AATGCCATGG ACAGCCCCCT CCTCAAGTAC AGCGCCAAAG ACTACTTCTT CAAGGCGGCC
CTCTGCCACT TCTGCATCGA CATGCTCAAC GCCAAGCTGG CTGTCCAAAA GTATGAGGAG CTGTTCCAG
CTTTCTCTGA TTCCCGGGAA TGCAAGTTGA TGAAAAAATT GCTAGAGGCC CACGAGGAGC AGAATGTGGA
CAGCTACACC GAGTCGGTGA AGGAATACGA CTCCATCTCC CGGCTGGACC AGTGGCTCAC CACCATGCTG
CTGCGCATCA AGAAGACCAT CCAGGGCGAT GAGGAGGACC TCGCTAA
```

Transaction Sequence

```
MDNSGKEAEA MALLAEAERK VKNSQSFFSG LFGSSKIEE ACEIYARAAN MFKMAKNWSA AGNAFCQAAQ LHLQLQSKHD
AATCFVDAGN AFKKADPQEA INCLMRAIEI YTDMGRFTIA AKHHISIAEI YETELVDIEK AIAHYEQSAD YYKGEESNSS
ANKCLLKVAG YAALLEQYQK AIDIYQVGT NAMDSPLLKY SAKDYFFKAA LCHFCIDMLN AKLAVQKYEE LFPAFSDSRE
CKLMKKLLEA HEEQNVDSTY ESVKEYDSIS RLDQWLTTML LRIKTIQGD EEDLR
```