

Product datasheet for **RC200450**

NAPG (NM_003826) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAPG (NM_003826) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NAPG
Synonyms:	GAMMASNAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200450 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCAGAAGATAAACGAGGGGCTGGAACACCTCGCCAAAGCAGAGAAATACCTGAAAAGTGGT
TTTTAAATGGAAGCCAGATTATGACAGTGCCGCTTCTGAATATGGAAAAGCAGCTGTTGCTTTAAAAA
TGCCAAACAGTTTGAGCAAGCAAAAGATGCCTGCCTGAGGGAAGCTGTTGCCATGAAAATAATAGGGCT
CTTTTTCATGCTGCCAAAGCTTATGAGCAAGCTGGAATGATGTTGAAGGAGATGCAGAACTACCAGAGG
CCGTTTCAGCTAATTGAGAAGGCCAGCATGATGTATCTAGAAAACGGCACCCAGACACAGCAGCCATGGC
TTTGGAGCGAGCTGGAAAGCTTATAGAAAATGTTGATCCAGAGAAGGCTGTACAGTTATATCAACAGACA
GCTAATGTGTTTAAAAATGATGAACGCTTACGACAGGCAGTTGAATTACTAGGAAAAGCCTCCAGACTAC
TAGTACGAGGACGTAGGTTTGTAGAGCGGCACTCTCTATTAGAAAAGAAAAAATTTATAAGGAAAT
TGAGAATTATCCAACCTTGTATAAGAAAACAATTGCTCAAGTCTTAGTTCATCTACACAGAAATGACTAT
GTAGCTGCAGAAAGATGTGTCCGGGAGAGCTATAGCATCCCTGGGTTCAATGGCAGTGAAGACTGTGCTG
CCCTGGAACAGCTTCTTGAAGTTATGACCAGCAAGACCAAGATCAGGTGTCAGATGTCTGCAACTCACC
GCTTTTCAAGTACATGGACAATGATTATGCTAAGCTGGGCCTGAGTTTGGTGGTTCCAGGAGGGGAATC
AAGAAGAAATCACCTGCAACACCACAGGCCAAGCCTGATGGTGTCACTGCCACGGCTGCTGATGAAGAGG
AAGATGAATACTCAGGAGGACTATGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200450 protein sequence
 Red=Cloning site Green=Tags(s)

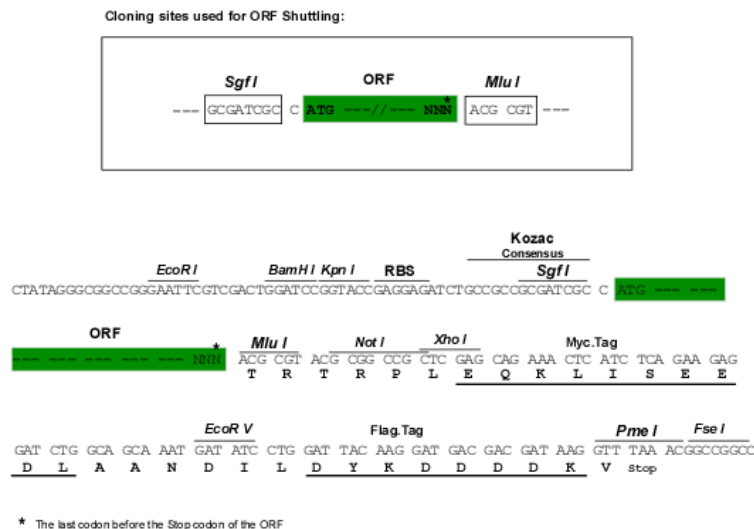
MAAQKINEGLEHLAKAEKYLKTGFLKWKPDYDSAASEYGKA AVAFKNAKQFEQAKDACLREAVAHENNRA
 LFHAAKAYEQAGMMLKEMQKLPEAVQLIEKASMMYLENGTPDTAAMALERAGKLIENVDPKAVQLYQQT
 ANVFENDERLRQAVELLGKASRLLVRRRFDEAALSIQKEKNIYKEIENYPTCYKKTIAQVLVHLHRNDY
 VAAERCVRESYSIPGFNGSEDCAALEQLLEGYDQDQVSDVCNSPLFKYMDNDYAKLGLSLVPPGGGI
 KKKSPATPQAKPDGVTATAADEEEDEYSGGLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6082_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003826

ORF Size: 936 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003826.3](#)

RefSeq Size: 3729 bp

RefSeq ORF: 939 bp

Locus ID: 8774

UniProt ID: [Q99747](#)

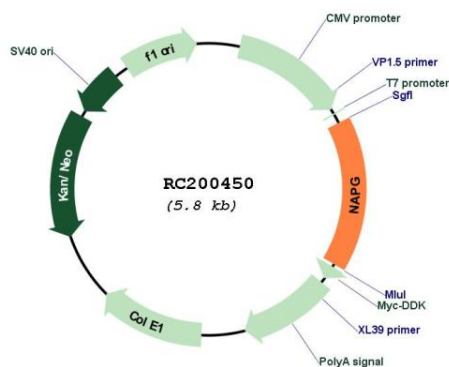
Cytogenetics: 18p11.22

Domains: NSF

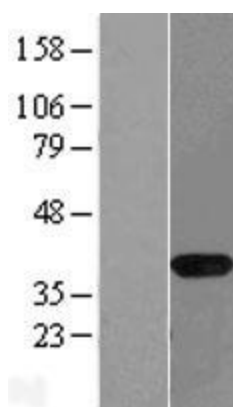
MW: 34.7 kDa

Gene Summary: This gene encodes soluble NSF attachment protein gamma. The soluble NSF attachment proteins (SNAPs) enable N-ethyl-maleimide-sensitive fusion protein (NSF) to bind to target membranes. NSF and SNAPs appear to be general components of the intracellular membrane fusion apparatus, and their action at specific sites of fusion must be controlled by SNAP receptors particular to the membranes being fused. The product of this gene mediates platelet exocytosis and controls the membrane fusion events of this process.[provided by RefSeq, Dec 2008]

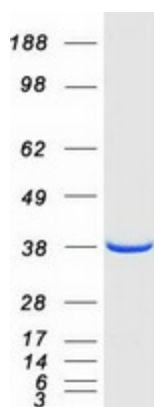
Product images:



Circular map for RC200450



Western blot validation of overexpression lysate (Cat# [LY418393]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200450 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NAPG protein (Cat# [TP300450]). The protein was produced from HEK293T cells transfected with NAPG cDNA clone (Cat# RC200450) using MegaTran 2.0 (Cat# [TT210002]).