

Product datasheet for RC222713

NAV3 (NM_014903) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAV3 (NM_014903) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NAV3
Synonyms:	POMFIL1; STEERIN3; unc53H3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222713 representing NM_014903 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTCTTGGGGTTCCTCAAAGTGAAGCAGCCAGCTGTTGGGTCAAAGCCTGTGCATACTGCTC
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Protein Sequence: >RC222713 representing NM_014903
 Red=Cloning site Green=Tags(s)

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 VLDYTPWSSATLPQESPALLQLRPEDVGYE SCTSTKEATTSKHIPQTDTEGDPLMNMMLKLEAANYSSST
 QSCDSESTSHHEDILDSSLESTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_014903

ORF Size: 6999 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

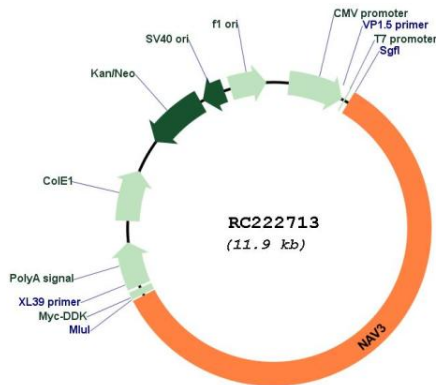
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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 Size: 9644 bp
RefSeq ORF: 7092 bp
Locus ID: 89795
UniProt ID: [Q8IVL0](#)
Cytogenetics: 12q21.2
Domains: CH, AAA
MW: 249.86 kDa

Gene Summary: This gene belongs to the neuron navigator family and is expressed predominantly in the nervous system. The encoded protein contains coiled-coil domains and a conserved AAA domain characteristic for ATPases associated with a variety of cellular activities. This gene is similar to *unc-53*, a *Caenorhabditis elegans* gene involved in axon guidance. Multiple alternatively spliced transcript variants for this gene have been described but only one has had its full-length nature determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222713