

Product datasheet for **SC308910**

NAV3 (NM_014903) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NAV3 (NM_014903) Human Untagged Clone
Tag: Tag Free
Symbol: NAV3
Synonyms: POMFIL1; STEERIN3; unc53H3
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_014903 edited
 ATGCAGGGAAGTTTTGCCTCTTCCGAAAATTATATTAGCTTTTTAAAAATCAGGAT
 GACTGCTAGTTTTGTTTAAAGTATTTGTTCTGGAATACTAAAGTTGGAGTCTACCAGAC
 TGAGGTTAGAAGCATTCTTTGGCAGCAAGAAGATAATTTTATAGAAGCCATGCCTGTT
 CTTGGGGTTGCCTCAAACTGAGGCAGCCAGCTGTTGGGTCAAAGCCTGTGCATACTGCT
 CTTCCGATACCAATCTTGGCACTACTGGGTCACAGCACTGTTCTTCAAGACCTTTGGAA
 CTTGCTGAAACAGAGAGCTCCATGCTTTCTTGTGCTGAGTTGCGTTAAAAATCAACCTGTGAA
 TTTGGAGAGAAGAAACCCTCCAAGGAAAAGCCAAGGAGAAAGAAGACAGCAAGATTTAC
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 AGGCTTCCAGGGCCCTCTAGGGTGCCTGCTGCAGGAAGCAGCAGCAAGTCCAGGGAGCC
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 AAGCCACCTGTCTCAGAAGGGTCAAACCTGCTCCCTCAGGACAGAAATCCATGCTTGAG
 AAATTCAGCTAGTCAATGCCCGGACTGCTTTACGCCCCCGCAGCCTCCAGTTTCAGGA
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 ACAATCAAAACAAACACAAAACAAAATGTATTTATCCTGTTGGTGTTAAGAGGTGTT
 CACTTGCTGAGATTTCTGTACATTGCAAAACAAATACAGAATGCAAAACCCCAAAAAA
 AAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014903 unedited
 NAAAGTTCACATTTGTATACGACTCATATAGGCGGCCGNAATTCGCACGAGNATGCAG
 GAAGTTTTGCCTCTTCTGAAAAATATTATTAGCTTTTTAAAAATCAGGATGACTGCTA
 GTTTTGTTAAAGATTTGTTCTGGAAATACTAAAGTTGGAGTCTACCAGACTGAGGTTA
 GAAGCATTTTCTTGGCAGCAAGAAGATAATTTTATAGAAGCCATGCCTGTTCTTGGGGT
 TGCTCAAAACTGAGGCAGCCAGCTGTTGGGTCAAAGCCTGTGCATACTGCTCTTCCGAT
 ACCAAATCTTGGCACTACTGGGTCAAGCACTGTTCTTCAAGACCTTTGGAACCTGCTGA
 AACAGAGAGCTCCATGCTTCTTGTGAGCTTGCCTTAAAAATCAACCTGTGAATTTGGAGA
 GAAGAAACCCCTCCAAGGAAAAGCCAAGGAGAAAGAAGACAGCAAGATTTACTGACTG
 GGCCAACCACTACCTAGCAAAATCAGGCCACAAGCGGCTGATCAAGGACTTGCAACAAGA
 CATTGCAGATGGAGTACTCCTAGCAGAAATCATCCAGATTATTGCAAAATGAAAAAGTTGA
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 TAGTTTTCTAGCAGCCAGAGGGTAAATGTTCAAGGCTATCTGCTGAAGAAATAAGAAA
 TGGAACCTTAAAAGCCATTCTAGGGCTGTTTTTTCAGTTTATCTCGCTNACAGCAGCAACA
 ACACCATCAACAACAGTACTATCAGTCCTTGGTGAACCTCAGCAGCGAGTTACTCACGC
 TTCCCTCCATCGNAAGCCAGCCAGGCCAAAACCCAGCAAGATATGCAGC

3' Read Nucleotide Sequence:

>Forward primer walk for NM_014903 unedited
 CAATACATAACAGNNAACCAGTGNAAAGNNCTTTTTAGGNCAGAATATNCTTNCGNAAA
 AAAACTCATANAGATAGAAATTGAAAGGAACATTCGCAATAATGACCTAGTCAAAATAT
 AGATTGGATTCCGAAGACGTGGCATCATCTCAACAGTTTTTTGGAAACACACAGTTCTTC
 TGACGTTACCATTGGTCCCCGACTATTCCTTCTTGCCTTGGATGTAGAAGGTTCTAG
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 AGAGGGTCTTCAGATGTATGGGAAACGCACACCATGGGAAGATCCTTCAAAGTGGGTGCT
 TGACACATATCCATGGAGCTCAGCAACTCTGCCTCAGGAGAGCCAGCCTTACTTCAGCT
 GCGACCAGAAGATGTTGGGTATGAAAGCTGCACATCCACTAAGGAAGCCACAACCTCAA
 GCACATTCACAAACTGACACAGAAGGAGATCCCCTGATGAATATGCTAATGAAACTCCA
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 TTCTAAGCATTTTTATATCTGTGGGAGTAATAGAAAGCTCCATTACTCAACTGAAAAAG
 GAACCTAATG

Restriction Sites:

Please inquire

| | |
|-------------------------------|--|
| ACCN: | NM_014903 |
| Insert Size: | 8700 bp |
| OTI Disclaimer: | <p>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.</p> <p>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</p> |
| OTI Annotation: | There are 90 nucleotide differences between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 30 (23 and 7 deletion) amino acid. |
| 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: | <ol style="list-style-type: none"> 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_014903.3 , NP_055718.3 |
| RefSeq Size: | 9644 bp |
| RefSeq ORF: | 7092 bp |
| Locus ID: | 89795 |
| UniProt ID: | Q8IVL0 |
| Cytogenetics: | 12q21.2 |
| Domains: | CH, AAA |

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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.