

## Product datasheet for RC218731

### NAV2 (NM\_182964) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NAV2 (NM_182964) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NAV2
Synonyms:	HELAD1; POMFIL2; RAINB1; STEERIN2; UNC53H2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218731 ORF sequence, <b>codon optimized</b> . Due to the complexity of NM_182964, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCCGCAATCCTGGTGGCCAGCAAAATGAAAAGCGGTCTGCCAAGCCAGTTCACAGTGC GGCCCTA  
TACTCCACGTGCCACCTGCTCGGGCTGGCCCTCAGCCGTGCTACCTGAAGCTGGGCAGTAAAGTGGAGGT  
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GGTGAGGGCCTCCCGCTGCGGAAAAGCGGATCCGTTGAGAACGGGTTTGACACACAGATCTACACTGACT  
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AGGCCCTTGTC AACACACCAGCCGCTCCTCATCAGCAGTCAAAGCCAGGCCGAGATGCAGTCCAG  
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CCTGCTCACTGGAGTCCGGTTCTCTAGCACCCCAAAATTGTTCAACTTCTCAGCGATTCTCAGC



CAGGGGCCGCCACCAAACCATGGAGGAGTAAAAGTCTGTCTGTTAAACATTCAGCTACCGTCTCAATGCT  
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 CGCATCCCGAATGTTGACTACTGTGGGGCCGCCAGCTCTAGTCTAAGATCGCCCTCAAAGGATTGGC  
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 GGATCTCAAAGAAGAACCCTAAAGAGGACCCATCCGGCGCTGCTGTGCCGAGATGCCAAAAAAGCTCC  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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Protein Sequence: >RC218731 representing NM\_182964  
 Red=Cloning site Green=Tags(s)

MPAILVASKMKSGLPKPVHSAAPILHVPPARAGPQPCYLKLGSKVEVSKTTPSPQIPLKSQVLQGLQEPA  
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 SQVAGAPSQCAAGTPQQQVPVTPQAPCQPHQAPHQSKAQAEQSSASSKQSSQSKIIIRFTLGQKKISR  
 LPGPTARVSAAGSEAKTRGGSTTANNRRSQSFNNYDKSKPVTSPPPSSSHEKEPLASSASSHPGMSDNA  
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 NSVKTTLESPLSSPAASPFCRSTLPRKQSDPHLDRNTLPKGLRYTPTSQLRTQEDAKEWLRSHSAG  
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 VYSTPEEKQSEIRKLRELDASQEKVSALTTQLTANAHLVAAFEQSLGNMIRLQSLTMTAEQKSELN  
 ELRKTIELLLKQNAQAANGVINTPELNCKGNGTAQSADLRIRRHSSSDSVSSINSATSHSSVGSNIE  
 SDSKKKRKNVWVNLRSSFKQAFGKKKSPKSASSHSDIEEMTDSSLPSSPKLPHNGSTGTPLLRNSHSN  
 SLISECMDSEAEVQMLRNLRDKEMKLTDIRLEALSSAHQLDQLREAMNRMQSEIEKKAENDRLKSES  
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 EDRPHFLFIGIGVSGKTKWDVLDGVVRRLFKEYIIHVDPVSQLGLNDSVVLGYSIGEIKRSNTSETPE  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_182964

**ORF Size:** 7464 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\\_182964.3](#), [NM\\_182964.4](#), [NP\\_892009.2](#)

**RefSeq Size:** 11501 bp

**RefSeq ORF:** 7299 bp

**Locus ID:** 89797

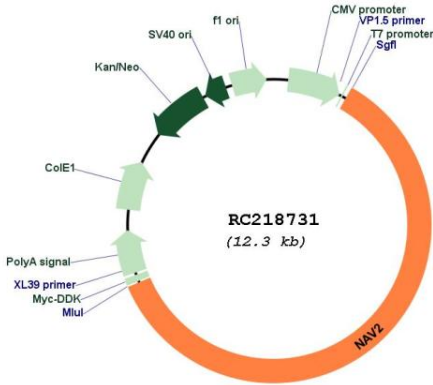
**UniProt ID:** [Q8IVL1](#)

**Cytogenetics:** 11p15.1

**MW:** 268.2 kDa

**Gene Summary:** This gene encodes a member of the neuron navigator gene family, which may play a role in cellular growth and migration. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

**Product images:**



Circular map for RC218731