

Product datasheet for **SC309130**

NAV2 (NM_145117) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAV2 (NM_145117) Human Untagged Clone
Tag:	Tag Free
Symbol:	NAV2
Synonyms:	HELAD1; POMFIL2; RAINB1; STEERIN2; UNC53H2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145117, the custom clone sequence may differ by one or more nucleotides

```

ATGCCGGCCATCCTGGTCGCCTCCAAAATGAAGTCGGGACTGCCCAAACCCGTGCACAGC
GCCGCGCCCATCCTGCACGTGCCCCGGCCCGGGCGGGCCCCAGCCCTGCTACCTGAAG
TTGGGAAGCAAGGTGGAGGTGAGCAAGACCACCTATCCTAGCCAGATCCCCCTGAAATCG
CAGGTGCTGCAGGGGCTGCAGGAGCCAGCGGGGAGGGGCTCCCGCTGCGGAAGAGCGGC
TCGGTGGAAAACGGGTTCGATACCCAGATCTACACAGACTGGGCAATCATTACCTAGCC
AAATCCGGCCACAAGCGTCTCATCAGGGATCTCCAGCAAGATGTGACAGATGGCGTCCTC
CTGGCCCAGATTATCCAGTTGTGGCAAATGAAAAGATTGAAGACATCAATGGCTGTCCG
AAGAACAGATCCCAAATGATTGAAAACATAGATGCCTGCTTGAATTTCTGGCAGCTAAG
GGAATAAACATCCAGGGGCTGTCTGCAGAAGAGATCAGGAATGGAACCTCAAGGCCATT
CTAGGCCCTCTTCTCAGCCTCTCCCGATACAAGCAGCAGCAGCAGCCCCAGAAGCAG
CACCTCTCCTCACCTCTGCCGCCGCGGTATCCAGGTGGCCGGGGCCCCCTCCCAAGTGC
CAGGCTGGCACCCCTCAGCAGCAGGTGCCAGTCACTCCCCAAGCCCCGTGCCAGCCTCAC
CAGCCAGCGCCACATCAGCAGTCAAAAGCACAAGCTGAAATGCAGTCCAGACTTCCAGGT
CCTACCGCGAGGGTATCCGCTGCAGGCAGCGAGGCCAAAACACGCGGAGGGTCAACTACT
GCTAACCAACCGACGCAGCCAGAGCTTTAACAATATGATAAATCCAAACCAGTCACCTCC
CCACCCCCACCGCAAGCAGCCACGAGAAAGAGCCTTTGGCAAGTTCAGCCTCCTCCAC
CCGGAATGAGTGACAATGCACCTGCTTCTTGGAGAGCGGCAGCAGCTCCACCCCTACT
AATTGCAGTACCTCCTCGCCATCCCGCAGCCCGGTGCAGCCACCAAGCCTTGGCGCAGC
AAATCCCTCAGCGTGAAGCACAGTGCCACGGTATCCATGCTCTCGGTCAAGCCTCCTGGG
CCTGAGGCCCCCAGGCCACACCTGAAGCCATGAAGCCGGCCCCCAACAATCAGAAGTCC
ATGCTGGAAGGCTGAACTTTTCAACAGTAAAGGGGGCTCAAAGGCAGGTGAGGGGCCG
GGGTCCCGGGACACAAGCTGTGAGCGGCTGGAGACTCTGCCAGCTTCGAAGAGAGCGAG
GAGCTGGAGGCGCCAGTCGCATGCTCACCACCGTGGGCCCTGCTTCCAGCAGCCCCAAG
ATTGCACTCAAGGCATTGCCCAGAGGACTTTTAGCCGGGCACTGACCAACAAGAAGAGT
TCTCTGAAAGGCAATGAGAAAGAGAAGGAGAAACAACAGCGGGAGAAGGATAAGGAGAAA
AGCAAGGACCTTGCCAAGAGAGCCTCTGTGACGGAGAGGCTGGACCTCAAGGAGGAGCCA
AAAGAAGACCCCAAGTGGAGCAGCTGTGCCCGAGATGCCAAAAAGTCTCCAAGATTGCC
AGCTTCATCCCCAAGGGGGGAAGCTCAACAGTGCCAAGAAGGAGCCCATGGCCCTTCC
CACAGTGAATACCAAAACCAGGAATGAAAAGCATGCCCGGGAATCCCCAAGTGCCCCA

```



[View online »](#)

GCGCCTTCCAAGGAAGGGGAGCGGAGCCGAGTGGGAAGCTGAGCTCAGGACTCCCCAG
 CAGAAGCCCCAGCTGGACGGCAGACACTCCAGTTCCTCTTCCAGCCTGGCGTCTCAGAA
 GGAAAAGGCCAGGAGGGACCACCTGAACCACAGCATCAGCAGCCAGACTGTCAGTGGG
 TCTGTCCGGGACCACCCAGACCACAGGAAGCAATACCGTCAGTGTTACGCTACCTCAGCCC
 CAGCAGCAATAACAACATCCCAACTGCCACGGTTGCACCTTTCCTGTACAGGTCTCAG
 ACGGACACTGAAGGGAATGTTACTGCCGAGTCAAGCTCAACAGGTGTGAGCGTGGAGCCC
 AGCCACTTCACCAAGACTGGACAGCCTGCTCTGGAAGAAGCTCACTGGGGAAGATCCTGAG
 GCTCGGGCGGCTGCGGACAGTGAAGAACATCGCTGATCTGCGGCAGAAATTTGGAGGAAACC
 ATGTCCAGTTTAAGGGAACTCAGGTTACACACAGCACATTGGAACACGTTTGACACC
 AATGTCAACACGGAGATGAGTGGCCGTAGCATACTCAGCTTGACAGGGAGGCCACACCT
 CTGTCTGGAGACTGGGCCAGTCCAGCCCTCGGCTCCAAGCAGGAGACGCCCCCTCAATG
 GGCAATGGGTATCCCCCTCGAGCCAACGCCAGCAGGTTTCACTCAACACTGAGTCAGTTCGC
 TATGTGTACTCCGCCCTCTGAGAAGGCAGCTGGCCTCCCGGGGAGTAGTGTCTGCCAT
 GTGGACGTCTCAGACAAGGCAGGAGATGAGATGGACCTGGAAGGCATCAGCATGGATGCC
 CCCGGCTACATGAGCGACGGGGATGTTCTGAGCAAGAATCCGGACCGATGACATTACA
 AGCGGATACATGACTGATGGTGGACTTGGCCTCTATACCGTCGCTGAACCGGCTCCCT
 GATGGGATGGCTGTGGTACGGGAGACCCTGCAACGAAATACCTCCCTGGGCTCGGAGAC
 GCTGACAGCTGGGACGACAGCAGCTCCGTGAGCAGCGGCATCAGCGACACCATAGACAAC
 CTCAGCACTGATGACATCAACACCAGCTCCTCCATCAGCTCTTATGCCAACACACCTGCC
 TCCTCTCGAAAAACCTGGATGTGCAGACTGATGCTGAGAAGCACTCACAGGTGGAGAGG
 AATTCCCTGTGGTCTGGTGTATGTCAAGAAATCAGACGGAGGCTCAGACAGCGGCATA
 AAAATGGAGCCAGGTTCCAAGTGGAGGCGGAATCCTTCTGATGTGTCTGACGAGTCCGAC
 AAAAGCACGTCCGGCAAGAAGAATCCTGTATCTCCAGACAGGCTCATGGCGGCGAGGC
 ATGACAGCTCAGGTGGGCATCACCATGCCAAGGACGAAGCCTTACGCCCCGGCAGCGCA
 CTGAAGACCCAGGAAGTGGAAAAACAGACGACGCAAGGTGTCTGAGAAAGGAAGGCTT
 TCTCTAAAGCCTCCAGGTGAAGCGCTCCCCATCAGATGCAGGCCGGAGCAGTGGTGAC
 GAATCCAAAAAGCCCCCTCCAGCAGCTCTAGGACACCTACTGCCAATGCCAACAGCTTT
 GGGTTCAAGAAGCAGAGTGGTCCGCGCCGGCCTGGCCATGATCACAGCCAGCGGGGTG
 ACTGTCACCAGCAGGTGAGCCACACTGGGCAAAATCCCAAAGTCATCTGCACTCGTCAGT
 CGGTCTGCTGGTCCGAAGTCAAGTATGGATGGGGCTCAGAATCAGGATGACGGGTATCTA
 GCCCTAAGCTCCCGGACAAACCTTCAGTACCGGAGTTTGCCGAGGCCAGTAAGTCCAAC
 AGCCGGAACGGGGCTGGGAACAGGTCTAGCACACGACAGCATAGATTCCAACATTAGCAGC
 AAGTCCGACGGCCTGCCAGTGCCAAACTGAGGGAGCCTTCCAAAACAGCCCTAGGCAGC
 TCTCTACCAGGTCTGGTCAACCAACAGACAAGGAGAAAGGCATCTCATCAGACAACGAG
 AGTGTGGCTTCTGTAACTCGGTGAAAGTGAATCCGGCAGCCAGCCTGTGTCCAGTCCG
 GCTCAGACCAGTCTCAGCCTGGAGCCAAGTACCCAGATGTGGCCTCTCCCACTCCGC
 AGACTCTTTGGTGGGAAGCCTACCAAGCAAGTGCCCATCGCCACAGCTGAAAACATGAAA
 AATTCCGTGGTTCATCTCCAATCCTCATGCCACCATGACTCAGCAAGGTAACTAGACTCC
 CCGTCAGGCAGTGGCGTCTGAGCAGTGGGAGCAGCAGTCTCTCTACAGCAAGAATGTG
 GACCTCAACCAAGTCTCCGCTAGCCTCCAGCCCCAGCTCAGCCCACTCGGCCCTTCCAAC
 AGCCTCACCTGGGGACCAACGCCAGCAGCTCCTCCGAGTTAGCAAGGATGGCCTGGGC
 TTTGAGTCTGTGACGAGCCTCCACACAGCTGTGAGTCCATCGACATCTCCCTCAGCAGT
 GGAGGGGTCCCCAGCCACAATTCTTCACTGGCCTCATCGCCTCCTCAAGGACGACTCC
 TTGACTCCCTTTGTGAGAACTAACAGTGTGAAGACCACACTGTGAGAAAGCCCTCTCTCT
 TCCCCTGTGCTAGCCCTAAGTTCTGAGAAAGTACTCTGCCAGGAAACAGGACAGTGAC
 CCGCACCTTGATAGGAACACTTTGCCTAAGAAAGGACTCAGGTATACTCCACCTCCCAG
 CTTGCGACGCAAGAAGATGCAAAAGAATGGTTACGGTCCATTCTGCAGGAGGCCTTCAG
 GACACCGCTGCCAATTCCCCCTTTCTCTGGCTCCAGCGTGACTTCTCCCTCCGGAACA
 AGATTCAACTTTTCCAGCTTGCGAGTCCACCACTGTACCCAGATGAGCTTGCCAAC
 CCGACCATGCTGAGGACTCACAGCCTCTCCAATGCTGATGGGCAGTATGATCCATACACT
 GACAGCCGCTTCCGGAATAGCTCCATGTCCCTGGATGAGAAGAGCAGAACCATGAGCCGT
 TCAGGCTCATTCCGGGATGGGTTGAAGAAGTTCATGGATCCTCACTCTCCTTGGTTTC

AGCACATCGTCAGTTTATTCTACACCAGAAGAAAAATGCCAGTCAGAGATTTCGCAAGCTG
CGGCGGGAAGTGGATGCCTCCCAGGAGAAAGTTTCAGCTTTGACCACCCAGCTGACAGCA
AATGCTCACCTTGTGGCAGCCTTTGAACAGAGTCTTGGTAACATGACAATCAGGCTCCAG
AGTCTGACCATGACAGCTGAGCAGAAGGACTCAGAACTGAATGAGTTAAGAAAAACCAT
GAGCTGCTAAAGAAACAGAACGCAGCTGCCAGGCTGCCATTAATGGAGTAATTAACACA
CCTGAGCTCAACTGCAAAGGAAACGGCACTGCCAGTCTGCAGACCTCCGCATCCGCAGG
CAGCACTCCTCAGACAGCGTCTCCAGCATCAACAGTGCCACCAGCCACTCCAGCGTGGGC
AGCAACATAGAGAGTGACTCAAAGAAGAAGAGCGGAAGAACTGGTTACGCAGCTCCTTC
AAGCAAGCTTTTCGGGAAGAAGAGTCCCCAAAATCTGCGTCTCTCATTAGATATTGAG
GAGATGACGGATTCTTCTTTGCCTTCTCACCAGGTTACCGCACAATGGGTCCACAGGT
TCCACCCCACTGCTGAGGAATTCTCACTCCAATCTCTAATTTCAGAATGCATGGATAGT
GAAGCTGAGACCGTCATGCAGCTCCGAAATGAGTTAAGAGACAAGGAGATGAAGCTGACG
GATATCCGCTTAGAAGCTCTCAGTTCTGCCACCAGCTGGACCAGCTCCGGGAGGCCATG
AACAGGATGCAGAGTGAAATAGAGAAGCTGAAAGCTGAGAATGATCGGCTGAAGTCAGAG
TCTCAAGGCAGTGGCTGCAGCCGGGCTCCTTCCAAGTGCCATCTCTGCCTCCCCGAGG
CAGTCCATGGGCCCTCTCCAGCACAGCTTGAACCTCACTGAGTCAACCAGCTGGACATG
TTGCTGGATGACACTGGTGAATGCTCGGCTCGGAAGGAAGGAGGCAGGCATGTTAAGATA
GTTGTCAGCTTTTCAGGAGGAAATGAAGTGGAAGGAGGATTCCAGACCACATCTCTTTCTT
ATTGGCTGCATTGGAGTTAGTGGCAAGACGAAGTGGGATGTGCTCGATGGGGTGGTTAGA
CGGCTGTTCAAAGAATACATCATTATGTCGACCCAGTGAGTCAGCTAGGGCTGAATTCA
GACAGCGTTCTTGGCTACAGCATTGGAGAAATCAAGCGCAGCAACACTTCCGAAACACCG
GAGCTGCTTCTTGTGGCTATCTGGTTGGAGAGAACACGACCATCTCAGTGACTGTGAAA
GGGCTCGCAGAAAACAGCCTGGACTCACTGGTGTGTTGAGTCCTTGATTCCCAAGCCCATC
CTGCAGCGCTACGTCTCCCTCCTGATAGAGCACCCTCGGATCATTCTCTTGCCCCCAGC
GGCACTGGGAAAACCTACCTGGCCAACCGGCTGTCTGAGTATATAGTGCTTCGAGAGGGA
CGGGAGTTGACAGACGGGGTTATCGCCACCTTTAAGTGGACCATAAGTCCAGCAAGGAA
TTGCGCCAGTACCTGTCAACCTTGCTGACCAGTGCAACAGTGAGAACAATGCTGTGGAC
ATGCCCCCTCGTCATCATCCTGGACAACCTACACCAGTGAGCTCTCTGGGCGAGATCTTC
AATGGGCTGCTCAACTGCAAGTACCACAAATGCCCTTACATAATTGGCACAATGAACCAG
GCTACCTCTTCGACTCCCAACCTGCAGCTTACCATAACTTCAGATGGGTGCTTTGTGCC
AACCACACGGAGCCTGTGAAGGGTTTCTTGGCCGATTCTGAGGAGGAAGCTCATGGAA
ACAGAGATCAGTGGGCGGGTGCAGCAATATGGAGCTGGTAAAAATCATTGACTGGATTCCC
AAGGTCTGGCATCACCTCAACCGCTTCTGGAGGCTCACAGTTCTCGGACGTCACCATC
GGCCCCCGGCTCTTCTGTCTATGCCCCATCGATGTGGACGGCTCGAGAGTGTGGTTACC
GACTTGTGGAACATTCCATTATCCCCTATCTCTGGAAGCCGTGAGAGAAGGACTCCAG
CTCTATGGAAGGCGCGCCCCCTGGGAGGATCCTGCCAAGTGGGTGATGGACACATATCCA
TGGGCAGCCAGCCACAACAGCACGAGTGGCCTCCCCTGCTGCAGTTACGGCCTGAGGAT
GTCGGCTTCGACGGCTACTCCATGCCTCGGGAGGGATCGACAAGCAAGCAGATGCCCCC
AGTGATGCTGAAGGTGACCCGCTGATGAACATGCTGATGAGGCTGCAGGAGGCAGCCAAC
TACTCCAGCCCCAGAGCTATGACAGCGACTCCAACAGCAACAGCCATCACGATGACATC
TTGACTCCTCTTTGGAGTCCACTCTGTGA

Restriction Sites:

Please inquire

ACCN:

NM_145117

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_145117.3, NP_660093.2</u>
RefSeq Size:	10967 bp
RefSeq ORF:	7290 bp
Locus ID:	89797
UniProt ID:	<u>Q8IVL1</u>
Cytogenetics:	11p15.1
Domains:	CH, AAA
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] Transcript Variant: This variant (2) lacks several alternate exons in the coding region, compared to variant 5. This results in a shorter protein (isoform 2), which maintains the reading frame and contains the same N- and C-termimi, compared to isoform 5. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.