

Product datasheet for **SC329358**

Neuron navigator 1 (NAV1) (NM_001167738) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuron navigator 1 (NAV1) (NM_001167738) Human Untagged Clone
Tag:	Tag Free
Symbol:	NAV1
Synonyms:	POMFIL3; STEERIN1; UNC53H1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001167738, the custom clone sequence may differ by one or more nucleotides

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ATGCTTCATCTGCCCTGCCAGATCCGGAAGAACGGTGAATTTCCCCCGCAGCTGGGAT
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ATGAGCCTCCCCAGTGCCTTCCCCAGCAGTACTCCCGTCCCCACCCACCTGCTCCCCCT
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 CAACTGGACAGTAATCAGCGGGATCGGAACACTTCCCAAGAAAGGGCTCAGGTACCAG
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 GTGCTCGACTGGGTACCCAAGCTGTGGTATCATCTCCACACCTTCTTGGAGAAGCACAGC
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 TTCCGGACCTGGTTCATTGACCTGTGGAACAACTATCATTCCCTATCTACAGGAAGGA
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 GTCGGGACACACTTCCCTGGCCATCAGCCCAACAAGACCAATCAAAGCTGTACCACCTG
 CCCCCACCCACCTGGGCCCTCACAGCATTGCCTCACCTCCCAGGATAGGACAGTCAAA
 GACAGCACCCCAAGTTCTCTGGACTCAGATCCTCTGATGGCCATGCTGCTGAAACTTCAA
 GAAGCTGCCAACTACATTGAGTCTCCAGATCGAGAAACCATCCTGGACCCCAACCTTCAG
 GCAACACTTTAA

Restriction Sites:

Please inquire

ACCN:	NM_001167738
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:	<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:	<u>NM_001167738.1</u> , <u>NP_001161210.1</u>
RefSeq Size:	11689 bp
RefSeq ORF:	4452 bp
Locus ID:	89796
UniProt ID:	<u>Q8NEY1</u>
Cytogenetics:	1q32.1
Gene Summary:	<p>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 <i>Caenorhabditis elegans</i> gene involved in axon guidance. The exact function of this gene is not known, but it is thought to play a role in neuronal development and regeneration. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2009]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, uses an alternate start codon, and lacks an alternate in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.</p> <p>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.</p>