

Product datasheet for **SC103553**

Neuron navigator 1 (NAVI) (AK056158) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Neuron navigator 1
Synonyms:	POMFIL3; STEERIN1; UNC53H1
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>NCBI ORF sequence for AK056158, the custom clone sequence may differ by one or more nucleotides

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CTTACCCACCCGTGCCCCAGAGAGAAGTGGCTCGCTGCTCACACCCCTCCTGCCAGTGCAGCGCGAGTA
AGAGCGCCCCAAGGGACCACAGCTGGCATCCAGGGTTAATTTTCGAGCAGCCAGGTGGAGGTCGAGCC
CCCAACCCCGTCGGCACCTCCAGGCTTCGAGGCCACCGAACGGAGGAGGCTTCGGTGGCTCTTTGTCT
ACCTGCTCTGGGTGTTAAAGAGCCCGCTCGCAGCTGCATCGCCGGGGCTCGGGACAGAAAGTCAGCGGCG
GGGAAATGGGGCTCTGTCACTTTAAGTACAGCTGGAGCCCTGGGATGAAAGCAGCTCCATCAGTAGTGGA
CTCAGCGATGCCTCAGACAATCTCAGTTCAAGAAGATTCAATGCCAGCTCCTCACTCAACTCCCTCCCAA
GTACTCCCACTGCTTCTCGCAGGAATCAACAATAGTGCTACGCACAGACTCAGAGAAGCGCTACTGGC
AGAAAGTGGGCTGAGCTGGTTTAGTGAATCAGAGGAGAAAGCCCTAAAAAACTGGAGTACGACAGTGGT
AGCCTGAAGATGGAACCTGGGACTTCTAAGTGGCGGAGGGAGCGGCTGAGAGCTGTGATGATTCATCCA
AGGGTGAGAACTGAAAAGCCCATCAGCCTGGGCCACCTGGTTCCTGAAGAAGGGCAAGACCCACC
TGTGGCTGTAACCTCCCCATCACTCACACAGCCAGAGTGCCTCAAAGTCGACGGCAAACCTGAGGGC
AAAGCTACAGACAAGGGTAAGCTTGCAAGTGAAGAATACTGGGCTCCAACGCTCCTCCTCTGATGCTGGTC
GGGACCGCCTGAGTGATGCTAAGAAGCCCCCTCGGGCATTGCTCGCCCTCCACTTCGGGATCCTTTGG
CTACAAGAAGCCTCCTCCTGCCACAGGCACAGCCACTGTATGCAAAGTGGTGGTTCAGCCACTCTCAGC
AAGATCCAGAAGTCTCAGGCATCCTGTCAAGCCAGTAAATGGGCGCAAGACTAGCTTAGATGTTTCCA
ACAGTCAGAGCCAGGATTCTGGCTCCTGGAGCCCGTTCTAACATCCAGTACCGCAGCCTGCCCGGCC
AGCCAAGTCAAGTTCTATGAGCGTGACCGCGGGCGGGGTGGACCTCGCCCTGTGAGCAGCAGCATTGAC
CCCAGTCTCCTCAGCACCAGCAGGAGGCTTACGCCTTCAGACTGAAGGAGCCTACCAAGGTAGCCA
GTGGGCGGACCACTCCAGCCCTGTCAATCAGACAGATCGGAAAAAGGAGAAGGCCAAAGCAAGGCAGT
GGCCTTGGACTCAGACAACATCTCCTTGAAGAGTATTGGCTCCCCAGAAAGTACTCCCAAGAACCAAGCA
AGCCACCCACAGCCACCAAGCTGGCAGAGCTGCCACCAACCCCTCTCAGGGCCACAGCGAAGAGCTTTG
TCAAACCCCTCACTAGCCATCTTGACAAGGTCAACTCCAACAGTCTGGATCTACCATCATCCAGTGA
TACCACCATGCTTCAAAGGTCCAGATCTGCATGCTACAAGCTCAGCATCTGGGGGCCCTCTCCCTTCC
TGCTTCACCCCGAGTCCGGCACCCATCCTCAATATTAAGTCAAGCAGCTTCTCCAGGGCCTGGAGCTAA
TGAGTGGTTTCAGTGTGCCAAAGAGACCCGCATGTACCCAAACTCTCAGGCCTGCACAGGAGCATGGA
GTCCCTCCAGATGCCAATGAGCCTCCCAAGTGCCTTCCCAAGCAGTACTCCCGTCCCAACCCACCTGCT
CCCCCTGCTGCTCCACAGAAGAAGAGACGGAAGAGCTGACTTGGAGTGAAGCCCCAGAGCTGGGCAAC
TGGACAGTAATCAGCGGGATCGGAACACTCTTCCCAAGAAAGGGCTCAGGTACCAGCTTCAGTCCCAGGA
GGAGACCAAGGAGAGGGGACATTCCCATACCATTTGGTGGGCTGCCTGAATCCGATGACCAAGTCAGAGCTG
CCTTCTCCCCCTGCACTTCCCATGTCTCTGAGTGCAAAGGGCAACTTACCAACATAGTGAGTCCCACTG
CGGCCACCAAGCAAGAATCACCCGCTCCAACAGCATCCCCACCAAGGCGGCCCTTCGAGCTGTACAG
CGGCTCCCAATGGGGAGCACCTGTCCCTGGCCGAGAGACCAAGGGAATGATTTCGGTCAGGATCCTTC
CGAGACCCACGGACGATGTTACGGCTCAGTGTGCTCCCTGGCCTCCAGTGCCTCCTCCACCTACTCCT
CACAAATCCGAAGCTTCGTAGGGAAGTGAATCATCCAGGAAAAAGTGGCCACCTTGACGCTCTCAGCT
TTCTGCCAATGCTAATCTGGTGGCTGCTTTTGGCAGAGCCTGGTGAATATGACATCCCGCTGCGACAC
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CTTGGCTAACTGCAAACTCTGCCTCCAGGACACTGAGCTGCTGGATTTGCGAGAAACCATAGACTTTCT
GAAGAAAAAGAACTCTGAGGCCAGGCAGTCATTACGGGAGCCCTTAATGCCTCAGAAACCAACCCAAA
GAATTCGGATCAAGAGACAAAACCTCCTCAGATAGCATCTCAAGCTCAACAGCATCACTAGCCATTCCA
GCATCGGCAGCAGCAAGGATGCTGATGCG
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5' Read Nucleotide

Sequence:

>OriGene 5' read for AK056158 unedited
GGGGTGCAAAATTTGTAACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGGCCCCA
GCAAGCTCAGCCATATCTCCCGCTGGAGCTGGTCGAATCCCTGGACTCGGATGAGGTGG
ACCTCAAGTCCGGCTACATGAGCGACAGTGACCTCATGGGCAAGACCATGACGGAGGATG
ATGACATCACTACCGGCTGGGATGAAAGCAGCTCCATCAGTAGTGGACTCAGCGATGCCT
CAGACAATCTCAGTTCAGAAGAATTCAATGCCAGCTCCTCACTCACTCCCTCCCAAGTA
CTCCCACTGCTTCTCGCAGGAACCAACAATAGTGCTACGCACAGACTCAGAGAAGCGCT
CACTGGCAGAAAGTGGGCTGAGCTGGTTTAGTGAATCAGAGGAGAAAGCCCTAAAAAAC
TGGAGTACGACAGTGGTAGCCTGAAGATGGAACCTGGGACTTCTAAGTGGCGGAGGGAGC
GGCCTGAGAGCTGTGATGATTCATCCAAGGGTGGAAGACTGAAAAAGCCCATCAGCCTGN
GCCACCCTGGTTCCTGAAGAAGGGCAAGACCCACCTGTGGCTGTAACCTCCCCATCA
CTCACACAGCCAGAGTGCCCTCAAAGTCGACAGGCAAACTGAGGGCAAAGCTACAGACA
AGGGTAAGCTTGCAGTGAAGAATACTGGGCTNCAACGCTCCTNCTCTGATGCTGGTCGGG
ACCGCCTGAGTGATGCTAAGAAGCCCCCTCGGNCAATTGCTCGCCCTTCACTTCGGGAT
CCTTTGGCTACAAGAAGCCTNCTNCTGCCACAGCAGNCACTGTCATGAAAAGTGGTGG
NTCAGCCACTCTCAGCAAGACCANAAGTNTCAGCATCCTGTCAAGCAGTAATGGCGCAN
GATAGC

3' Read Nucleotide

Sequence:

>OriGene 3' read for AK056158 unedited
AGCTATGNNACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTCGCATCAG
CATCCTTGCTGCTGCCGATGCTGGAATGGTAGTGATGCTGTTGAGGCTTGAGATGCTAT
CTGAGGAGTTTTGTCTTTGATCCGAAGTTCTTTGGGTGTGGTTTCTGAGGCATTAAGGG
CTCCCTGAATGACTGCCTGGGCTCAGAGTTCTTTTCTTCAGAAAGTCTATGGTTTCTC
GCAAAATCCAGCAGCTCAGTGCTCTTCTCCTCGGCCGTCTCTGCCAGGTGTCGCAGGCGGG
ATGTCAATTTACCAAGGCTCTGCTCAAAAGCAGCCACCAGATTAGCATTGGCAGAAAGCT
GAGACGTCAAGGTGGCCACTTTTCTGGGATGATTCCAGTTCCCTACGAAGCTTCCGGA
TTTGCTCAGATTGCATCCTCTCCTCAGCTGAGGAGTAGGTGGAGGAGGCACTGGAGGCCA
GGGACAGCACTGAGCCGTGAACATCGTCCGTGGGGTCTCGGAAGGATCCTGACCGAATCA
TTCCCTTGGGTCTCTCGGCCAGGGACAGGGTGCTCCCATTTGGGAGCCGCTGTACAGCT
CGAAGGCCGCTCGTGGGTGGGGATGCTGTTGGAGCGGGTATTCTTGGCGTGGTGGCCG
CAGTGGGACTCACTATGTTGGTAAGTTGGCCCTTGCCTCAGAGACATGGGAAGTGCAC
GGGGAGAAGGCAGCTCTGACTGGTCATCGGATTCAAGCAGCCCAACCAATGGTATGGGAAT
GTGCGCTCTCCTTGGTCTCCTCCTGGGACTGAAGCTTGACCTGAGCCCTTTCTTGGGAA
GAGTGTTCGATCCCGTGATTACTGTCCAGTTGCCAGCTCTGGGGCTTCCACTCCAGT
ACACCTTCCGTCTTTTTTTTGTGGGAGCACACGGGAGCAGTTGGGTGGGACGGAATAC
TA

Restriction Sites:

NotI-NotI

ACCN:

AK056158

Insert Size:

2500 bp

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).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	AK056158.1 , BAG51635.1
RefSeq Size:	2759 bp
RefSeq ORF:	2759 bp
Locus ID:	89796
Cytogenetics:	1q32.1
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 <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]