

Product datasheet for RC230720

Neuron navigator 1 (NAV1) (NM_001167738) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuron navigator 1 (NAV1) (NM_001167738) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neuron navigator 1
Synonyms:	POMFIL3; STEERIN1; UNC53H1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC230720 representing NM_001167738 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCTTCATCTGCCCCTGCCAGATCCGGAAGAACGGTGAATTTCCCCGCAGCTGGGATGAAAGCAGCT
 CCATCAGTAGTGGACTCAGCGATGCCTCAGACAATCTCAGTTCAGAAGAATTCAATGCCAGCTCCTCACT
 CAACTCCCTCCCAAGTACTCCCACTGCTTCTCGCAGGAATCAACAATAGTGCTACGCACAGACTCAGAG
 AAGCGCTCACTGGCAGAAAGTGGGCTGAGCTGGTTTAGTGAATCAGAGGAGAAAGCCCTAAAAAAGTGG
 AGTACGACAGTGGTAGCCTGAAGATGGAACCTGGGACTTCTAAGTGGCGGAGGGAGCGGCCTGAGAGCTG
 TGATGATTCATCCAAGGGTGGAGAACTGAAAAAGCCCATCAGCCTGGGCCACCCTGGTTCCCTGAAGAAG
 GGCAAGAGCCCACTGTGGCTGTAACCTCCCCATCACTCACACAGCCAGAGTGCCTCAAAGTCGCAG
 GCAAACCTGAGGGCAAAGCTACAGACAAGGTAAGCTTGCAAGTGAAGAATACTGGGCTCCAACGCTCCTC
 CTCTGATGCTGGTCGGGACCGCCTGAGTGATGCTAAGAAGCCCCCTCGGGCATTGCTCGCCCCCTCACT
 TCGGGATCCTTTGGCTACAAGAAGCCTCCTCGCCACAGGCACAGCCACTGTCTGCAAACTGGTGGTT
 CAGCCACTCTCAGCAAGATCCAGAAGTCTCAGGCATCCCTGTCAAGCCAGTAAATGGGCGCAAGACTAG
 CTTAGATGTTTCCAACAGTGCAGAGCCAGGATTCTGGCTCCTGGAGCCCGTTCTAACATCCAGTACCGC
 AGCCTGCCCGGCCAGCAAGTCAAGTTCTATGAGCGTGACCGCGGGCGGGTGGACCTCGCCCTGTGA
 GCAGCAGCATTGACCCCAAGTCTCCTCAGCACCAAGCAGGAGGCCCTTACGCCTTCCAGACTGAAGGAGCC
 TACCAAGGTAGCCAGTGGGCGGACCACTCCAGCCCTGTCAATCAGACAGATCGGAAAAAGGAGAAGGCC
 AAAGCCAAGGCAGTGGCCTTGGACTCAGACAACATCTCCTTGAAGAGTATTGGCTCCCCAGAAAGTACTC
 CCAAGAACCAAGCAAGCCACCCACAGCCACCAAGCTGGCAGAGTGCCACCAACCCCTCTCAGGGCCAC
 AGCGAAGAGCTTTGTCAAACCACCTCACTAGCCAATCTTGACAAGGTCAACTCCAACAGTCTGGATCTA
 CCATCATCCAGTGATACCAACCATGCTTCAAAGGTCCAGATCTGCATGCTACAAGTCAAGTCTGATCTGGG
 GCCCTCTCCCTTCTGCTTCAACCCAGTCCGGCACCCATCCTCAATATTAAGTCAAGCAGCTTCTCCCA
 GGGCTGAGCTAATGAGTGGTTTCAGTGTGCCAAAAGAGACCCGCATGTACCCAAACTCTCAGGCCTG


[View online »](#)

CACAGGAGCATGGAGTCCCTCCAGATGCCAATGAGCCTCCCCAGTGCCTTCCCCAGCAGTACTCCCGTCC
CCACCCACCTGCTCCCCTGCTGCTCCCACAGAAGAAGAGACGGAAGAGCTGACTTGGAGTGGAAGCCC
CAGAGCTGGGCAACTGGACAGTAATCAGCGGATCGGAACACTCTTCCAAGAAAGGGCTCAGGTACCAAG
CTTCAGTCCCAGGAGGAGACCAAGGAGAGGCGACATTCCCATACCATGGTGGGCTGCCTGAATCCGATG
ACCACTCAGAGCTGCCTTCTCCCCTGCACTTCCCATGTCTCTGAGTGCAAAAGGGCAACTTACCAACAT
AGTGAGTCCCAGTGGCGCCACACGCCAAGAATCACCCGCTCCACAGCATCCCCACCCACGAGGCGGCC
TTCGAGCTGTACAGCGGCTCCCAATGGGAGCACCTGTCCCTGGCCGAGAGACCAAGGAATGATTG
GGTCAGGATCCTTCCGAGACCCACGACGATGTTACGGCTCAGTGCTGTCCCTGGCCTCCAGTGCCTC
CTCCACCTACTCCTCAGCTGAGGAGAGGATGCAATCTGAGCAAATCCGGAAGCTTCGTAGGGAAGTGGAA
TCATCCCAGGAAAAAGTGGCCACCTTGACGTCTCAGCTTTCTGCCAATGCTAATCTGGTGGCTGCTTTTG
AGCAGAGCCTGGTGAATATGACATCCCCTGCGACACCTGGCAGAGACGGCCGAGGAGAAGGACACTGA
GCTGCTGGATTTGCGAGAAACCATAGACTTTCTGAAGAAAAAGAACTCTGAGGCCAGGCAGTCATTGAG
GGAGCCCTTAATGCCTCAGAAACCAACCCAAAGAACTTCGGATCAAGAGACAAAACCTCCTCAGATAGCA
TCTCAAGCCTCAACAGCATCACTAGCCATTCCAGCATCGGCAGCAGCAAGGATGTGATGCGAAAAAGAA
GAAAAAAGAGTTGGCTTCGAAGTTCTTCAACAAAGCGTTCAAGTATAAAAAAGGGGCCAAGTACAGT
TCCTCATACTCGGATATAGAGGAGATTGCTACACCCGACTCTTACGCCCCCTCATCCCCAACTACAGC
ATGGTTCTACAGAGACTGCTTACCCCTCCATCAAGTCTCCACCTCGTCTCCGTGGGCACTGATGTCAC
CGAGGGCCCTGCTCACCCAGCCCCACACTAGGCTGTTCCATGCAATGAGGAGGAGGACCCAGAGAAG
AAGGAGGTATCGGAGCTGCGCTCTGAGCTATGGGAGAAGGAAATGAAGCTTACAGACATCCGCTTGGAGG
CCCTCACTCTGCCCACCACTGGATCAGCTTCGGGAGACCATGCACAACATGCAGTTGGAGGTGGACCT
GCTGAAAGCAGAGAATGACCGACTGAAGGTAGCCCCAGGCCCTCATCAGGCTCCACTCCAGGCGAGGTC
CCTGGATCATCTGCATTATCTTCCCCACGCCGCTCCCTAGGCTGGCACTCACCCATTCTTCGGCCCCA
GTCTTGCAGACACAGACCTGTCAACCATGGATGGCATCAGTACTTGTGGTCCAAAGGAGGAAGTACCCCT
CCGGGTGGTGGTGGAGGATGCCCCCGCAGCATCATCAAAGGGGACTTGAGCAGCAGGAATTCTTCCTG
GGCTGTAGCAAGGTGAGTGGAAAGTTGACTGGAAGATGCTGGATGAAGCTGTTTTCAAGTGTTCGAAG
ACTATATTTCTAAATGGACCCAGCCTCTACCCTGGGACTAAGCACTGAGTCCATCCATGGCTACAGCAT
CAGCCACGTGAAACGAGTGTTGGATGCAGAGCCCCCGAGATGCCTCCTTGGCGTCGAGGTGTCAATAAC
ATATCAGTCTCCCTCAAAGGTCTGAAGGAGAAATGCGTCGACAGCCTGGTGTTCGAGACGCTGATCCCCA
AGCCGATGATGCAGCACTACATAAGCCTCTGCTGAAGCACCGGCGCTCGTCTCTCGGGCCCCAGCGG
CACGGGAAGACCTACCTGACCAATCGCTTGGCCGAGTACCTGGTGGAGCGCTCTGGCCGTGAGGTACA
GAGGGCATCGTCAGCACCTTCAACATGCACCAGCAGTCTTGCAAGGATCTGCAACTGTATCTTTCAACC
TAGCCAACCAGATAGACCGGGAACAGGAATTGGGGATGTGCCCTGGTGATTCTATTGGATGACCTGAG
TGAAGCAGGCTCCATCAGTGAGTTGGTCAATGGGGCCCTCACCTGCAAGTATCATAAATGTCCCTATATT
ATAGGTACCACCAATCAGCCTGTAAAAATGACACCAACCATGGCTTGCACTTGAGCTTCAGGATGTTGA
CCTTCTCCAACAACGTGGAGCCAGCCAATGGCTTCTGTTTCTGTTACCTGAGGAGGAAGCTGGTAGAGTC
AGACAGCGACATCAATGCCAACAAGGAAGAGCTGCTTCGGGTGCTCGACTGGGTACCCAAGCTGTGGTAT
CATCTCCACACCTTCTTGAGAAGCACAGCACCTCAGACTTCTCATCGGCCCTTGCTTCTTTCTGTCGT
GTCCATTGGCATTGAGGACTTCCGGACCTGGTTTACCTGACCTGTGGAACAACTATCATTCCCTATCT
ACAGGAAGGAGCCAAGGATGGGATAAAGGTCCATGGACAGAAAGCTGCTTGGGAGGACCCAGTGGAATGG
GTCCGGGACACACTTCCCTGGCCATCAGCCCAACAAGACCAATCAAAGCTGTACCACCTGCCCCACCCA
CCGTGGGCCCTCACAGCATTGCCTCACCTCCCAGGATAGGACAGTCAAAGACAGCACCCCAAGTTCTCT
GGACTCAGATCCTCTGATGGCCATGCTGCTGAACTTCAAGAAGTGCCAACTACATTGAGTCTCCAGAT
CGAGAAACCATCCTGGACCCCAACCTTCAGGCAACACTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230720 representing NM_001167738
Red=Cloning site Green=Tags(s)

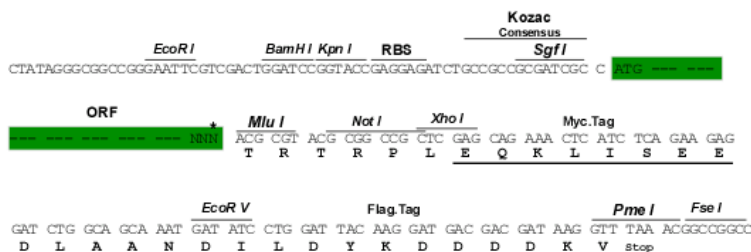
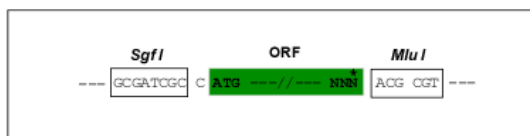
MLHLPLPRSGRTVNFPRSWDESSSISSGLSDASDNLSSSEFNASSSLNSLPSTPTASRRNSTIVLRTDSE
KRSLAESGLSWFSESEKAPKKLEYDSGSLKMEPGTSKWRRRERPESCDDSSKGGLKKPISLGHPSGLKK
GKTPPVAVTSPITHTAQSALKVAGKPEGKATDKGLAVKNTGLQRSSSDAGRDLSDAKKPPSGIARPST
SGSFGYKKPPPATGTATVMQTGGSATLSKIQKSSGIPVKPVNGRKTSLDVSNSAEPGLAPGARSNIQYR
SLPRPAKSSMSVTGGRGGPRPVSSSIDPSLLSTKQGGTTPSRLKEPTKVASGRTPAPVQNQDREKEKA
KAKAVALDSDNISLKSIGSPESTPKNQASHPTATKLAELPPTPLRATAKSFVKPPSLANLDKVNNSLDDL
PSSSDTTHASKVPDLHATSSASGGPLPSCFTSPAPILNINSASFSGLELMSGFSVPKETRMYPKLSGL
HRSMESLQMPMSLPSAFPSSTPVPTPPAPPAAPTEEMTEL TWSGSPRAGQLDSNQRDRNTLPPKGLGRYQ
LQSEYQETKERRHSTLIGGLPESDDQSLPSPALPMSEL SAKGLQ TNIVSPTAATTPRITRNSIPTHEAA
FELYSGSQMGSTLSLAERPCKMIRSGSFDPDTDDVHGSVLSSASSSTSSAEERMQSEQIRKLRLRELE
SSQEKVATLTSQLSANANLVAAFEQSLVNMTSRLRHLAETAEEKDTELLDLRETIDFLKKKNSEQAQVIAQ
GALNASETTPKELRIKQNSSDSISLNSITSHSSIGSSKDADAKKKKKKSWLRSSFNKAFSIKKGPKSA
SSYSIDIEEIIATPDSSAPSSPKLQHGSTETASPSIKSSTSSSVGTDVTEGPAHPAPHTRLFHANEEEEPEK
KEVSELRSELWEKEMKLTDIRLEALNSAHQLDQLRETMHNMQLEVDLLKAENDRLKVAPGPSSGSTPGQV
PGSSALSSPRSLGLALTHSFGPSLADTDLSPMDGISTCGPKEEVTLRVVVRMPPQHI IKGDLLKQEFFL
GCSKVSQKVDWKMLDEAVFQVFKDYISKMDPASTLGLSTESIHGYSISHVKRVLDAEPPPEMPPCRRGVNN
ISVSLKGLKEKCVDSL VFETLIPKPMQHYISLLLKHRRLLVSGPSGTGKTYLTNRLAEYLVERSGREVT
EGIVSTFNMHQQCKDLQLYLSNLANQIDRETIGIDVPLVILLDDLSEAGSISELVNGAL TCKYHKCPYI
IGTTNQPVKMTPNHGLHL SFRMLTFSSNNVEPANGFLVRYLRRLVESDSDINANKEELLRLVDWVPKLWY
HLHTFLPEKHSTSDFLIGPCFFLSCPIGIEDFRWFIDLWNNSIIPYLQEGAKDGIKVHGQKAAWEDPVVW
VRTDLFWPSAQQDQSKLYHLPPTVGPHSIASPPEDRTVKDSTPSSLSDSPLMAMLLKLQEAANYIESPD
RETILDPNLOATL

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



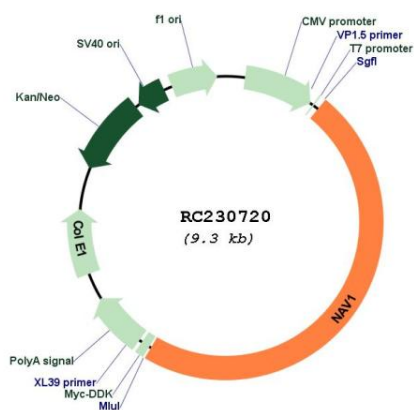
* The last codon before the Stop codon of the ORF

ACCN: NM_001167738

ORF Size: 4449 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001167738.2
RefSeq ORF:	4452 bp
Locus ID:	89796
UniProt ID:	Q8NEY1
Cytogenetics:	1q32.1
MW:	161.2 kDa
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. 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]

Product images:



Circular map for RC230720