

Product datasheet for **SC102381**

Netrin G2 Ligand (LRRC4) (NM_022143) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Netrin G2 Ligand
Synonyms:	NAG14; NGL-2
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>OriGene ORF within SC102381 sequence for NM_022143 edited (data generated by NextGen Sequencing)

ATGAAGCTCTTGTGGCAGGTAACGTGTCACCACACCTGGAATGCCATCCTGCTCCCG
TTCGTCTACCTCACGGCGCAAGTGTGGATTCTGTGTGACGCCATCGCTGCTGCCGCCTCA
GCCGGGCCCCAGAACTGCCCTCCGTCTGCTCGTGACGTAACCAAGTTCAGCAAGGTGGTG
TGCACGCGCCGGGCTCTCCGAGGTCCCGCAGGTATTCCCTCGAACACCCGGTACCTC
AACCTCATGGAGAACAACATCCAGATGATCCAGGCCGACACCTCCGCCACCTCCACCAC
CTGGAGGTCTGACGTTGGGCAGGAACCTCATCCGGCAGATTGAGGTGGGGGCTTCAAC
GGCCTGGCCAGCCTCAACACCTGGAGCTGTTGACAACCTGGCTGACAGTCATCCCTAGC
GGGGCTTTGAATACCTGTCCAAGCTGCGGGAGCTCTGGCTTCGCAACAACCCCATCGAA
AGCATCCCCCTTACGCCTTCAACCGGGTGCCCTCCCTCATGCGCTGGACTTGGGGGAG
CTCAAGAAAGCTGGAGTATATCTCTGAGGGAGCTTTTGAGGGGCTGTTCAACCTCAAGTAT
CTGAACCTGGGCATGTGCAACATTAAAGACATGCCAATCTCACCCCTGGTGGGGCTG
GAGGAGCTGGAGATGTGAGGAACCACTTCCCTGAGATCAGGCCTGGCTCCTTCCATGGC
CTGAGCTCCCTCAAGAAGCTCTGGGTGATGAACCTCACAGGTGAGCCTGATTGAGCGGAAT
GCTTTTGACGGGCTGGCTTCACTTGTGGAACCTCACTTGGCCCAACAATAACCTCTTCTCT
TTGCCCATGACCTCTTACCCCGCTGAGGTACCTGGTGGAGTTGCATCTACACCACAAC
CCTTGGAACTGTGATTGTGACATTCTGTGGCTAGCCTGGTGGCTTCGAGAGTATATACCC
ACCAATTCCACCTGCTGTGGCCGCTGTGATGCTCCCATGCATGCGAGGCCGCTACCTC
GTGGAGGTGGACAGGCCTCCTTCCAGTGCTCTGCCCTTTCATCATGGACGCACTCGA
GACCTCAACATTTCTGAGGGTGGATGGCAGAACTTAAGTGTGCGACTCCCCCTATGTCC
TCCGTGAAGTGGTGTGCTGCCAATGGGACAGTGTCTAGCCACGCCTCCCGCCACCAAGG
ATCTCTGTCTCAACGACGGCACCTTGAACCTTCCACGTGCTGCTTTCAGACACTGGG
GTGTACACATGCATGGTGACCAATGTTGACGGCAACTCAACGCCTCGGCCTACCTCAAT
GTGAGCACGGCTGAGCTTAACACCTCCAACCTACAGCTTCTTACCACAGTAACAGTGGAG
ACCACGGAGATCTCGCTGAGGACACAACGCGAAAGTACAAGCCTGTTCTTACCAGTCC
ACTGTTTACCAGCCGCATATACCACTCTACCAAGGTGCTCATTGAGACTACCCGTGTG
CCCAAGCAGGTGGCAGTACCCGCGACAGACCACTGACAAGATGACAGACAGCCTGGAT
GAAGTCATGAAGACCACCAAGATCATCATTGGCTGCTTTGTGGCAGTGACTCTGCTAGCT
GCCGCCATGTTGATTGTCTTCTATAAACTTCGTAAGCGGCACCAGCAGCGGAGTACAGTC
ACAGCCGCCGGACTGTTGAGATAATCCAGGTGGACGAAGACATCCAGCAGCAACATCC
GCAGCAGCAACAGCAGCTCCGTCCGGTGTATCAGGTGAGGGGGCAGTAGTGCTGCCACCA
ATTCATGACCATATTAACCTACAACCTACAACACAGCAGATGGGGCCCACTGGACAGAA
AACAGCCTGGGGAACCTCTGACCCCCACAGTCACCACTATCTCTGAACCTTATATAATT
CAGACCCATACCAAGGACAAGGTACAGGAACTCAAAATATGA

Clone variation with respect to NM_022143.4

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_022143 unedited
NGGGCACATTTGTATACGACTCACTATAGCGGCCGCGAATTTCGCACGAGGCCACCTTC
CCCCCTTTTGTTAATTAATAAAGTTCGGAATGGGAACGAGGTGCCAGCTCCCGTGG
AGAAAGCTTAAGGACACCACGCAAGTGCTTTCTGCCTTCCCTCCGAGATGGAAGAGGA
GCTCCTAGCTCACTTAAGCCGGGTAGGGCTGTTCTCCTTCCGAGCCAAAATCCCAGG
CGATGGTGAATTATGAACGTGCCACACCATGAAGCTCTTGTGGCAGGTAACGTGACCA
CCACACCTGGAATGCCATCCTGCTCCCGTTCGTCTACCTCACGGCGCAAGTGTGGATTCT
GTGTGACGATCGCTGCTGCCGCCTCAGCCGGGCCCCAGAACTGCCCCCTCCGTCTGCTC
GTGCAGTAACCAAGTTCAGCAAGGTGGTGTGACGCGCCGGGGCTCTCCGAGGTCCCGCA
GGGTATTCCCTCGAACACCCGGTACCTCAACCTCATGGAGAACAACATCCAGATGATCCA
GGCCGACACCTTCCGCCACCTCCACCACTGGAGGTCTGCAAGTTGGGCAGGAACCTCAT
CCGGCAGATTGAGGTGGGGGCTTCAACGGCTGGCCAGCCTCAACACCTGGAGCTGTT
CGACAACCTGGCTGACAGTCATCCCTAGCGGGGCTTTGAATACCTGTCCAAGCTGCGGGA
GCTCTGGCTTCGCAACAACCCCATCGAAGCATCCCTCTTACGCCTTCAACCGGTGCC
CTCCCTCATGCGCTGGACTTTGGGGAGCTCAAGAAGCTGGAGTATATCTCTGAGGGNNA
GCTTTGAGGGCTGTTCAACCTCAGTATCTGACTTGGGCATGTGCCACATTAAAGACTG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022143 unedited AACCCCCCNCNCCCCNNCCCCANCCAACCAAAANNNTTGGACTTGANACCGCGGCCG CATNCTAGGATCGNGTTTTTTTTTTTTTTTTTTGGTTTGACTTTTTGTCTTTAAATTTAA TATAATCTGTTTTTTTAAACCAGCCCATAGACTTAATATATAAGCATATACAAGGAAAAA GTCTCTCCCACTCTGTACAAAAGTTGCTGTCTTTGTGTGATTCTATTGCATTTTATAA GTTTTTTGGGGAGGGGAGTCATATTTGAGTTTCCTGTACCTTGTCTTGGTATGGGTCT GAATTATATAAGGGTCAGAGATAGTGGTGAAGTGGGGTGCAGAGATTCCCCAGGCTGT TTTCTGTCCAGTGGGCCCCATGTGCTGGTTTGTAGGTGTGTAGTTAATATGGTCATGAA TTGTGGGCAGCACTACTGCCCCCTCACCTGATACACGGAGCGAGCTGTGTTGCTGCTG CGGATGTTGCTGCTGGGATGTCTTCGTCCACCTGGATTATCTCAACAGTCCGGGCGGCTG TGACTGTACTCCGCTGCTGGTGCCGCTTACGAAGTTTATAGAAGACAATCAACATTGGCG GCTGCTAGCAGAGCCACTGCCACAAAGCAGCCAATGACGATCTTTGGTGGTCTTTATGAC TTCATCCAGGCTGGTCTGCATCTTGTGAGGGTGCCTCGCGGGGTAAGTCCACCTGGTT GGGCCCCCGGGTAGCCGAAAGAACACCCGCGGTAAACGGGGTATATGCCCGGCTCGGTA ACCCCGTGGACCCGGTAAGGAACAGGCTTCGCACCTTCGCGGGTGGGGCCCCACGC CGAAAAATCCCCCGGGTTTTCCAAGTGTACTCGGGGGTGAACAATATCTGTCCCTC CGCCCGGTGTTAAACCTAACACGTGTACATTCAAGGGAGGCTGTGGTCTTCG CATTT
Restriction Sites:	NotI-NotI
ACCN:	NM_022143
Insert Size:	2340 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:	NM_022143.3 , NP_071426.1
RefSeq Size:	3723 bp
RefSeq ORF:	3723 bp
Locus ID:	64101

UniProt ID:	<u>Q9HBW1</u>
Cytogenetics:	7q32.1
Domains:	LRRNT, LRRCT, LRR, LRR_TYP, IGc2, IG, LRR_PS
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene is significantly downregulated in primary brain tumors. The exact function of the protein encoded by this gene is unknown. [provided by RefSeq, Jul 2008]