

## Product datasheet for **SC123034**

### Netrin G2 (NTNG2) (NM\_032536) Human Untagged Clone

#### Product data:

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Product Type:             | Expression Plasmids                                |
| Product Name:             | Netrin G2 (NTNG2) (NM_032536) Human Untagged Clone |
| Tag:                      | Tag Free                                           |
| Symbol:                   | Netrin G2                                          |
| Synonyms:                 | bA479K20.1; LHLL9381; Lmnt2; NEDBASH; NTNG1        |
| Mammalian Cell Selection: | None                                               |
| Vector:                   | <u>pCMV6-XL5</u>                                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                             |



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_032536 edited
CCATGCTGAGGCCGCGAGTCCCGCTGACCCCGTCGCTGCCTCTCCAGGGCTTCTCTGGG
CCGCGCTCTGCACTGCGCAGCCATGCTGCATCTGCTGGCGCTCTTCTGCACTGCCT
CCCTCTGGCCTCTGGGGACTATGACATCTGCAAATCCTGGGTGACCACAGATGAGGGCCC
CACCTGGGAGTTCTACGCTGCCAGCCCAAGGTGATGCGCTGAAGGACTACGTCAAGGT
GAAGGTGGAGCCCTCAGGCATCAGATGTGGAGACCCCCCTGAGAGTTCTGCTCCCATGA
GAATCCCTACCTATGCAACAACGAGTGTGACGCTCCAACCCGGACCTGGCCACCCGCC
CAGGCTCATGTTGACAAGGAGGAGGAGGCTGGCCACCTACTGCGAGAGCATCACCTG
GAGCCGCTACCCAGCCCGCTGGAAGCCAACATCACCTTTCTGGAACAAGACCGTGGA
GCTGACCGACGACGTGGTGATGACCTTCGAGTACGGCCGGCCACGGTCATGGTCTGGA
GAAGTCCCTGGACAACGGGCGCACCTGGCAGCCCTACCAGTTCTACGCCGAGGACTGCAT
GGAGGCCCTTCGGTATGTCCGCCCGCGGGCCGCGACATGTCATCTCCAGCGCGCACCG
CGTGCTCTGCACCGAGGAGTACTCGCGCTGGGAGGCTCCAAGAAGGAGAAGCACGTGCG
CTTCGAGGTGCGGGACCGCTTCGCCATCTTTGCCGGCCCCGACCTGCGCAACATGGACAA
CCTCTACACGCGCTGGAGAGCGCAAGGGCTCAAGGAGTTCTTACCCTCACCACCT
GCGCATGCGGCTGCTGCGCCCGCGCTGGGCGGCACCTATGTGACGCGGAGAACCTCTA
CAAGTACTTCTACGCCATCTCCAACATCGAGGTATCGGCAGGTGCAAGTGCAACCTGCA
TGCCAACCTGTGCTCCATGCGCGAGGGCAGCTGCAGTGCAGTGCAGACACAACACCAC
CGGCCCGACTGCGGCAAGTGCAAGAAGATTTCCGCACCCGGTCTGGCGGGCCGGCTC
CTACCTGCCGCTGCCCATGGCTCTCCCAACGCTGTGCCGCTGCAGGTTCCTTTGGCAA
CTGCGAATGCTACGGTCACTCCAACCGCTGCAGTACATTGACTTCCTGAATGTGGTGAC
CTGCGTCAGCTGCAAGCACAACACGCGAGGTGAGCACTGCCAGCACTGCCGGCTGGGCTA
CTACCGCAACGGCTCGGAGAGCTGGATGATGAGAAGCTGCTGATTGAGTGTAAGTGCAA
CCAGATAGGCTCCGTGCAACGACCGGTGCAACGAGACCGGCTTCTGCGAGTGCCGCGAGGG
CGCGGCGGGCCCCAAGTGCGACGACTGCCTCCCAACGCACTACTGGCGCCAGGGTGCTA
CCCCAACGTGTGCGACGACGACAGCTGCTGTGCCAGAACGGAGGCACCTGCCTGCAGAA
CCAGCGCTGCGCCTGCCCGCGCGCTACACCGCGTGCCTGCGAGCAGCCCCGCTGCGA
CCCCGCCGACGATGACGGCGGTCTGGACTGCGACCGCGCGCCGGGGCCGCCCGCGCCC
CGCCACCCTGCTCGGCTGCCTGCTGCTGCTGGGGCTGGCCGCCCGCTGGGCCGCTGAGC
CCCGCCCGGAGGACGCTCCCGCACCCGAGGCGGGGGTCCCGGGTCCCGGGGCGGGG
CCGGCGTCCGAGCCGGGCGGTGAGAAGGTGCGGCCGAGGTGCTCCAGGTGCTACTC
AGCAGGGCCCCCGCCCGCGCGCTCCCGCCGCACTGCCCTCCCCCGCAGCAGGGG
CGCCTTGGGACTCCGGTCCCCGCGCCTGCGATTTGGTTTCGTTTTCTTTTGATTATCC
GCCGCCAGTTCTTTTTTGTCTTTCTCTCTCTCTTTTTTTTTTTTTTTCTGGCGGT
GAGCCAGAGGGTCCGGAGAAACGCTGCTCGCCCCACACCCGCTCTGCCTCCACACAC
TTACACACACGGGACTGTGGCCGACACCCCTGGCCTGTGCCAGGCTCACGGGCGCGGC
GGACCCCGACCTCCAGTTGCCTACAATTCCAGTCGCTGACTTGGTCCTGTTTTCTATTCT
TTATTTTTCTGCAACCCACAGACCCAGGCCTACCGGAGGCCCGGTGACCACGGAAC
TCACCGTCTGGGGAGGAGGAGAGAAGGAAGGGTGGGGGCTGGAACTTCGTTCTGT
AGAGAACTATTTTTGTTTGTATTCACTGTCCCTGCAAGGGGACGGGGCGGAGCACTG
GTCACCGCGGGGCCGATGGTGGAGAATCCGAGGAGTAAAGAGTTTGCTCACTGCTGCAA
AAAAAAAAAAAAAAAAAAAAAAAAA
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|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_032536 unedited</p> <pre>GGGTTTGGATTTGTAAACGACTCATATAGGGCGGCCGGAATCCCGGNAATCGTCGACC CACGCGTCCGCCATGCTGAGGCCGCGAGTCCCGCTGACCCCGTGCCTCTCCAGGG CTTCTCTGGGCCGCGCTCTGCAGACTGCGCAGCCATGCTGCATCTGCTGGCGCTTTCC TGCACTGCCTCCCTCTGGCCTCTGGGGACTATGACATCTGCAATCCTGGGTGACCACAG ATGAGGGCCCCACCTGGGAGTTCTACGCCTGCCAGCCCAAGGTGATGCGCCTGAAGGACT ACGTCAAGGTGAAGGTGGAGCCCTCAGGCATCACATGTGGAGACCCCTGAGAGTTCT GCTCCCATGAGAATCCCTACCTATGCAGCAACGAGTGTGACGCCTCCAACCCGGACCTGG CCCACCCGCCCAGGCTCATGTTTCGACAAGGAGGAGGAGGCGCTGGCCACCTACTGCGAGA GCATCACCTGGAGCCGCTACCCAGCCGCTGGAAGCCAACATCACCTTTCTGGAACA AGACCGTGGAGCTGACCGACGACGTGGTATGACCTTCGAGTACGGCCGCCACGGTCA TGGTCTGGAGAAGTCCCTGGACAACGGGCGCACCTGGCAGCCCTACCAGTTCTACGCCG AGGACTGCATGGAGGCCCTTCGGTATGTCCGCCCGCGGCCGCGACATGTCATCTCCA GCGCGCACCGCTGCTCTGCACCGAGGAGTACTCGCGCTGGGCAGGCTCCAAGAAAGAGA AGCACGTGCGCTTCGAGGTGCGGGACCGCTTCGNATCTTTGCCGGCCCCGACCTGCGCA ACATGGACAACCTCTACACNGCGCTGGAGAGCGCCAAGGCCTCAAGNAGTTNNCTCACCT NACCGACTGCGCATGCNGCTGCT</pre> |
| <b>Restriction Sites:</b>           | Please inquire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ACCN:</b>                        | NM_032536                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Insert Size:</b>                 | 1593 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>OTI Disclaimer:</b>              | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Components:</b>                  | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Note:</b>                        | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RefSeq:</b>                      | <u><a href="#">NM_032536.1</a></u> , <u><a href="#">NP_115925.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq Size:</b>                 | 2428 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq ORF:</b>                  | 1593 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Locus ID:</b>                    | 84628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID:</b>                  | <u><a href="#">Q96CW9</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>                | 9q34.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Gene Summary:**

Involved in controlling patterning and neuronal circuit formation at the laminar, cellular, subcellular and synaptic levels. Promotes neurite outgrowth of both axons and dendrites. [UniProtKB/Swiss-Prot Function]