

## Product datasheet for **RG223481**

### Netrin G2 Ligand (LRRC4) (NM\_022143) Human Tagged ORF Clone

#### Product data:

|                           |                         |
|---------------------------|-------------------------|
| Product Type:             | Expression Plasmids     |
| Tag:                      | TurboGFP                |
| Symbol:                   | Netrin G2 Ligand        |
| Synonyms:                 | NAG14; NGL-2            |
| Mammalian Cell Selection: | Neomycin                |
| Vector:                   | pCMV6-AC-GFP (PS100010) |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |



[View online »](#)

**ORF Nucleotide Sequence:** >RG223481 representing NM\_022143  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAAGCTCTTGTGGCAGGTAAGTGTGCACCACCACCTGGAATGCCATCCTGCTCCCGTTCTGCTACC  
 TCACGGCGCAAGTGTGGATTCTGTGTGCAGCCATCGCTGCTGCCGCCTCAGCCGGGCCCCAGAACTGCC  
 CTCCGCTGCTCGTGCAGTAACCAAGTTAGCAAGGTGGTGTGCACGCGCCGGGGCTCTCCGAGGTCCCG  
 CAGGGTATTCCTCGAACACCCGGTACCTCAACCTCATGGAGAACAACATCCAGATGATCCAGGCCGACA  
 CCTTCGCCACCTCCACCACCTGGAGGTCTGCACTGGGCGAGAACTCCATCCGGCAGATTGAGGTGGG  
 GGCTTCAACGGGCTGGCCAGCCTCAACACCTGGAGCTGTTTCGACAACTGGCTGACAGTCATCCCTAGC  
 GGGGCTTTGAATACCTGTCCAAGCTGCGGGAGCTCTGGCTTCGCAACAACCCCATCGAAAGCATCCCCT  
 CTTACGCTTCAACCGGGTGCCTCCCTCATGCGCTGGACTTGGGGAGCTCAAGAAGCTGGAGTATAT  
 CTCTGAGGGAGCTTTTGGGGGCTGTTCAACCTCAAGTATCTGAACCTGGGCATGTGCAACATTAAAGAC  
 ATGCCCAATCTACCCCCCTGGTGGGGCTGGAGGAGCTGGAGATGTGAGGAACCACTTCCCTGAGATCA  
 GGCCTGGCTCCTTCCATGGCCTGAGCTCCCTCAAGAAGCTCTGGGTCTGAACTCAGAGGTGAGCCTGAT  
 TGAGCGGAATGCTTTTACGGGCTGGCTTCACTGTGGAACCACTTGGCCCAACAATCACTCTCTTCT  
 TTGCCCATGACCTCTTACCCCGCTGAGGTACCTGGTGGAGTTGATCTACACCACAACCTTGGAACT  
 GTGATTGTGACATTCTGTGGCTAGCCTGGTGGCTTCGAGAGTATATACCCACCAATTCACCTGCTGTGG  
 CCGCTGTATGCTCCCATGCACATGCGAGGCCGCTACCTCGTGGAGGTGGACCAGGCCTCCTTCCAGTGC  
 TCTGCCCCCTTATCATGGACGCACCTCGAGACCTCAACATTTCTGAGGGTGGATGGCAGAACTTAAGT  
 GTCGGACTCCCCCTATGCTCCTCGTGAAGTGGTGTGCTGCCCAATGGGACAGTGTGAGCCAGCCTCCCG  
 CCACCAAGGATCTCTGCTCAACGACGGCACCTTGAACCTTTCCACAGTGTGCTTTTACGACACTGGG  
 GTGTACACATGCATGGTGACCAATGTTGACGGCAACTCCAACGCCTCGGCCTACCTCAATGTGAGCACGG  
 CTGAGCTTAACACCTCCAATACAGCTTCTTACCACAGTAACAGTGGAGACCACGGAGATCTCGCTGA  
 GGACACAACGCGAAAGTACAAGCCTGTTCTACCACGTCCACTGGTTACCAGCCGGCATATACCACCTCT  
 ACCACGGTGTCTATTGAGACTACCCGTGTGCCCAAGCAGGTGGCAGTACCCGCGACAGACACCACTGACA  
 AGATGCAGACCAGCCTGGATGAAGTCATGAAGACCACCAAGATCATCATTGGCTGCTTTGTGGCAGTGAC  
 TCTGCTAGCTGCCGCCATGTTGATTGTCTTCTATAAACTTCGTAAGCGGCACCAGCAGCGGAGTACAGTC  
 ACAGCCGCCGGACTGTTGAGATAATCCAGGTGGACGAAGACATCCAGCAGCAACATCCGACGAGCAA  
 CAGCAGCTCCGTCCGGTATCAGGTGAGGGGGCAGTAGTGTGCCCACAATTATGACCATATTAATA  
 CAACACCTACAACACGACATGGGGCCCACTGGACAGAAAACAGCCTGGGGAACCTCTCTGACCCACACA  
 GTCACCACTATCTGAACCTTATATAATTCAGACCCATACCAAGGACAAGGTACAGGAACTCAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG223481 representing NM\_022143  
 Red=Cloning site Green=Tags(s)

MKLLWQVTVHHHTWNAILLPFVYLTAQVWILCAAIAAASAGPQNCPSVCSCSNQFSKVVCTRRGLSEVP  
 QGIPSNTRYLNLMENNIQMIQADTFRHLHHLEVLQLGRNSIRQIEVGAFNGLASLNTLELFDNWLTVIPS  
 GAFEYLSKLRELWLRNNPIESIPSYAFNRVPSLMRLDLGELKKLEYISEGAFEGFLNLYLNLGMCNIKD  
 MPNLTPLVGLEELEMGNHPEIRPGSFHGLSSLLKLVWMNSQVSLIERNAFDGLASLVELNLAHNNLSS  
 LPHDLFTPLRYLVELHLHHNPWNCDILWLAWWLREYIPTNSTCCGRCHAPMHRGRYLVEVDQASFQC  
 SAPFIMDAPRDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHASRHPRI SVLNDGTLNFSHVLLSDTG  
 VYTCMVTNVAGNSNASAYLNVSTAEINTSNYSFFTIVTETTEISPEDTTRKYKPVPTTSTGYQPAYTTS  
 TTVLIQTTRVPKQVAVPATDITDKMQTSLDEVMTTKIIIGCFVAVTLLAAAMLIVFYKLRKRHQQRSTV  
 TAARTVEIIQVDEDIPAATSAAATAAPSGVSGEGAVVLP TIHDHINYNTYKPAHGAHWTE NSLGNLHPT  
 VTTISEPYIIQTHTKDKVQETQI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:



**ACCN:** NM\_022143

**ORF Size:** 1959 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:**

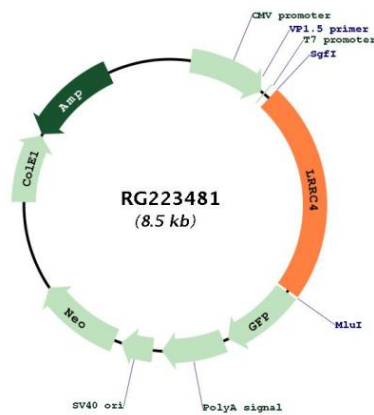
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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\\_022143.5](#)

|                   |                                                                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RefSeq Size:      | 3723 bp                                                                                                                                                             |
| RefSeq ORF:       | 1962 bp                                                                                                                                                             |
| Locus ID:         | 64101                                                                                                                                                               |
| UniProt ID:       | <a href="#">Q9HBW1</a>                                                                                                                                              |
| 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] |

### Product images:



Circular map for RG223481