

Product datasheet for **RG204589**

Netrin G2 (NTNG2) (NM_032536) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Netrin G2
Synonyms:	bA479K20.1; LHLL9381; Lmnt2; NEDBASH; NTNG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG204589 representing NM_032536
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGCATCTGCTGGCGCTCTTCTGCACTGCCTCCCTCTGGCCTCTGGGGACTATGACATCTGCAAAAT
 CCTGGGTGACCACAGATGAGGGCCCCACCTGGGAGTTCTACGCCTGCCAGCCCAAGGTGATGCGCCTGAA
 GGACTACGTCAAGGTGAAGGTGGAGCCCTCAGGCATACATGTGGAGACCCCCCTGAGAGGTTCTGCTCC
 CATGAGAATCCCTACCTATGCAGCAACGAGTGTGACGCCTCCAACCCGGACCTGGCCACCCGCCAGGC
 TCATGTTGACAAGGAGGAGGAGGGCCTGGCCACCTACTGGCAGAGCATCACCTGGAGCCGCTACCCAG
 CCCGCTGGAAGCCAACATCACCCTTTCTGTGGAACAAGACCGTGGAGCTGACCGACGACGTGGTGATGACC
 TTCGAGTACGGCCGGCCACGGTCATGGTCTTGAGAAGTCCCTGGACAACGGGCGCACCTGGCAGCCCT
 ACCAGTTCTACGCCGAGGACTGCATGGAGGCTTCGGTATGTCCGCCCGCCGGGCCGCGACATGTCATC
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 GTGCGTTCGAGGTGCGGGACCGCTTCGCATCTTTGCCGGCCCCGACCTGCGCAACATGGACAACCTCT
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 GGCAGAGCTGGATGATGAGAACGTCTGCATTGAGTGTAACTGCAACCAGATAGGCTCCGTGCACGACCGG
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 CGCACTACTGGCGCCAGGGTCTACCCCAACGTGTGCGACGACGACGAGCTGCTGTGCCAGAACGGAGG
 CACCTGCCTGCAGAACGCGCTGCGCTGCCCGCGGGCTACACCGCGTGCCTGCGAGCAGCCCCGC
 TGCGACCCCGCGACGATGACGGCGGTCTGGACTGCGACCGCGCGCCGGGGCCGCCCGCCCCGCCA
 CCCTGCTCGGCTGCTGCTGCTGGGGCTGGCCGCCCGCTGGGCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

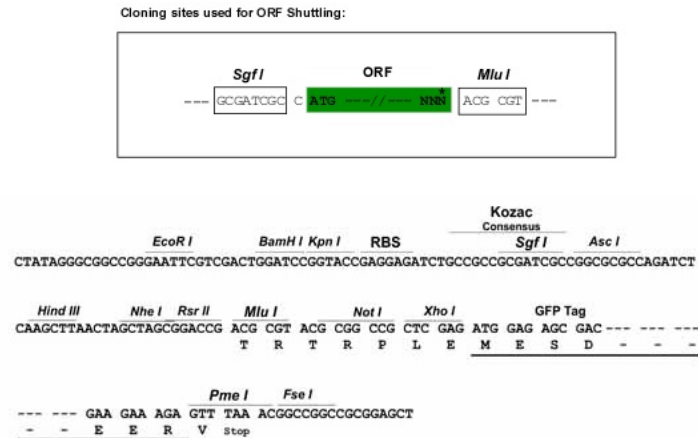
Protein Sequence: >RG204589 representing NM_032536
 Red=Cloning site Green=Tags(s)

MLHLLALFLHCLPLASGDYDICKSWVTTDEGPTWEFYACQPKVMRLKDYVKVKEPSGITCGDPPERFCS
 HENPYLCSNECDASNPDLAHPRLMFDKEEGLATYWQSITWSRYPSPLEANITLSWNKTVELTDDVVM
 FEYGRPTVMVLEKSLDNGRTWQPYQFYAEDCMEAFGMSARRARDMSSSSAHRVLCTEEYSRWAGSKKEKH
 VRFEVRDRFAIFAGPDLRNMNDLYTRLESAGLKEFFLTDLRMRLLRPALGGTYVQRENLYKYFYAISN
 IEVIGRCKCNLHANLCSMREGSLQCEEHNTTGPDCGKCKNFRTSRWAGSYLPLPHGSPNACATAGSF
 GNCECYGHSNRCSYIDFLNVVTCVSKHNTRGQHCQHCRLGYRRNGSAELDDENVICIECNQIGSVHNR
 CNETGFCECREGAAGPKDDCLPTHYWRQGCYPNVCDQQLLCQNGGTCLQNQRACACPRGYTGVRCEQPR
 CDPADDDGGLDCDRAPGAAPRPATLLGCLLLLGLAARLGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032536

ORF Size: 1590 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.

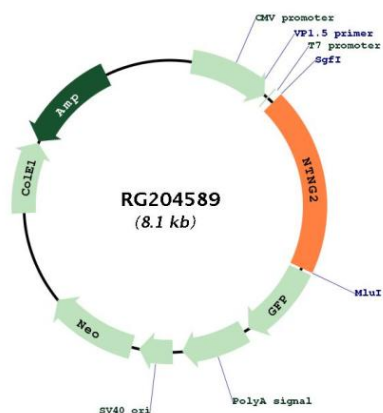
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032536.4](#)

RefSeq Size: 3113 bp

RefSeq ORF:	1593 bp
Locus ID:	84628
UniProt ID:	Q96CW9
Cytogenetics:	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]

Product images:



Circular map for RG204589