

Product datasheet for **RG216200**

NOVA2 (NM_002516) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOVA2 (NM_002516) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NOVA2
Synonyms:	ANOVA; NEDASB; NOVA-2; NOVA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216200 representing NM_002516
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCCGAGGCCCGGATTCCCGCAAGAGGCCCTCGAAACGCCCCCGAGGTGGTCTGCACCAAGC
 GCAGCAACACGGGAGAGGAAGGCCAATACTTCTGAAGGTGCTGATCCCCAGCTACGCGGGGCTCCAT
 CATTGGCAAGGGCGGGCAGACCATCGTGCAGCTGCAGAAGGAGACCGGAGCCACCATCAAGCTCTCCAAG
 TCCAAAGACTTCTACCCCGGAACACAGAGCGGTATGCCTAGTACAGGGCACGGCAGAGGCCTGAATG
 CTGTGCACAGCTTTATTGCCGAGAAGGTCCGAGAAATCCACAAGCGATGACCAAGCCTGAGGTGGTCAA
 CATCCTTCAACCCCAAACACGATGAACCCGACAGAGCCAAGCAGGCCAAGCTGATCGTCCCCAACAGC
 ACGGGCGGCTGATCATCGCAAGGGAGGCCACGGTAAAGCCGTGATGGAACAGTCAAGGAGCATGGG
 TGCAGCTGTCCCAGAAGCCGGAGGGCATCAACCTGCAGGAGCGCTGGTACGGTCAAGCGCGAGCCGA
 GCAGGTGCACAAGCCGTGAGCGCCATCGTGCAGAAGGTACAAGAAGACCCCGAGCAGCAGCTGCCTC
 AACATCAGCTACGCCAACGTGGCAGGCCCGTGGCCAACCTCAACCCACCGGCTCTCCGTACGCCAGCC
 CCGCGGATGTGCTGCCAGCCGCGGCCGAGCGTGGCCGCGCCGCCCTCCGGCCTGCTGGGCCCCGCGG
 GCTGGCTGGCGTGGGGGCTTTCCCGCCGCGTGGCCGCTTCTCAGGCACCGACCTGCTGGCCATCAGC
 ACGGCGCTTAACACGCTGGCAAGTTACGGCTACAACACCAACTCCCTGGGCTGGGCTCAACTCGGCCG
 CAGCTTCCGGCGTCTGGCCGCGTGGCCGCGGGGCCAACCCAGCAGCCGCGCCGCGCCCAACCTCCT
 GGCATCCTACGCGGGCGAGGCCGGGGCCGGCCAGCCGGAGGGGCGCCCGCCGCGCCCGCCCGCTCCC
 GGAGCCCTGGGGTCTTTGCGTTGGCCGACGCCCAACGGCTACCTCGGGGCGGGGCGGGCGGGGGG
 CGGGCGGAGGGGGCGGCCGCTGGTGGCCGTCAGCCGCGGGGCGGGGCGGGGCTTCTGACGCG
 GGAGAAGCTGGCGCTGAGAGTGCCAAGGAGCTGGTGGAGATTGCGGTGCCTGAGAACCTGGTGGGAGCC
 ATCCTGGGAAGGGGGCAAGACGTTGGTGGAGTACCAGGAGTACGAGGCGCTCGCATCCAGATCTCCA
 AGAAGGGCGAGTTCTGCCAGGCACGCGGAACCGCGGGTACCATCACGGGCGAGCCCGCGGCCACGCA
 AGCCGCTCAATACCTCATCAGTCAGCGGTCACCTACGAGCAGGGAGTGAGGGCTCAAACCCCGAGAAA
 GTGGGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216200 representing NM_002516
 Red=Cloning site Green=Tags(s)

MEPEAPDSRKRPLETPPEVVCTKRSNTGEEGEYFLKVLIPSYAAGSIIGKGGQTIIVQLQKETGATIKLSK
 SKDFYPGTTERVCLVQGTAEALNAVHSFIAEKVREIPQAMTKPEVVNIIQPTTMNPDRAKQAKLIVPNS
 TAGLIIGKGGATVKAVMEQSGAWVQLSQKPEGINLQERVVTVSGEPEQVHKAVSAIVQKVQEDPQSSCL
 NISYANVAGPVANSNPTGSPYASPADVLPAAAAASAAAASGLLGPAGLAGVGAFPAALPAFSGTDLLAIS
 TALNLTASYGYNTNSLGLGLNSAAASGVLAAVAAGANPAAAAANLLASYAGEAGAGPAGGAAPPPPPP
 GALGSFALAAAANGYLGAAGGGAGGGGGLVAAAAAAGAAGGFLTAEKLAASAKELVEIAPENLVGA
 ILGKGGKTLVEYQELTGARIQISKKGEFLPGTRNRRVITIGSPAATQAAQYLISQRVTYEQGVRASNPQK
 VG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002516

ORF Size: 1476 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

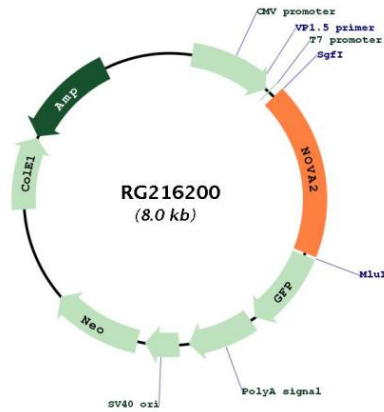
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

RefSeq: [NM_002516.4](#)

RefSeq Size: 1857 bp
 RefSeq ORF: 1479 bp
 Locus ID: 4858
 UniProt ID: [Q9UNW9](#)
 Cytogenetics: 19q13.32
 Gene Summary: May regulate RNA splicing or metabolism in a specific subset of developing neurons (By similarity). Binds single strand RNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216200