

## Product datasheet for **MG225500**

### **Nova1 (NM\_021361) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nova1 (NM_021361) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nova1
Synonyms:	9430099M15Rik; G630039L02; Nova-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG225500 representing NM\_021361  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGGCGGCAGCTCCATTACAGCAGAACGGACCCATACGGGGTTCATAGATCTGGACCCGCGG  
 ACTCGCGGAAAAGGCCGCTTGAAGCGCCCCCTGAAGCCGGCAGCACCAAGAGGACCAACACGGGCGAAGA  
 CGGCCAGTACTTTCTAAAGGTTCTCATACCTAGTTATGCTGCTGGATCTATAATTGGGAAGGAGGACAG  
 ACAATTGTTTCAAGTTGCAAAAAGAACTGGAGCCACTATCAAGCTGTCTAAATCCAAAGATTTTTATCCAG  
 GTACTACTGAGAGGGTTTCTTGTATCCAGGGAACAATTGAAGCGCTGAACGCAGTTCATGGATTCATTGC  
 AGAAAAATCCGAGAAATGCCCAAAATGTTGCCAAGACAGAACCAGTCAGTATCCTACAACCTCAGACC  
 ACCGTTAATCCTGATCGCATCAAACAACATTGCCATCTCCCAACTACCACCAAGTCTCTCCATCTG  
 ACCCCATGACCACCTCCAGAGCCAATCAGGTAAGATTATAGTTCCCAACAGCACAGCAGGTCTGATAAT  
 AGGGAAGGAGGTGCTACTGTGAAGGCTATAATGGAGCAGTCAGGGGCTTGGGTGCAGCTTCCAGAAA  
 CCCGATGGGATCAACTTGAAGAGAGGGTTGCTACTGTGAGTGGAGAACCCTGAACAAAACCGAAAAGCTG  
 TTGAACTTATCATCCAGAAGATACAAGAGGATCCACAGAGTGGCAGCTGTCTCAATATCAGTTATGCCAA  
 TGTGACAGGTCCAGTGGCAAATTCATCCAAACCGGATCTCCTTATGCAAACACTGCTGAAGTGTACCA  
 ACTGCCGAGCAGCCGACAGGGCTATTAGGACATGCTAACCTTGCTGGCGTTGCGGCCCTTCCAGCAGTTT  
 TATCTGGCTTACAGGCAATGACCTGGTGGCCATCACCTCTGCACTTAATACATTAGCCAGCTATGGATA  
 TAATCTCAACACATTAGGTTTAGGTCTCAGCCAAGCAGCAGCAACGGGGCTTTGGCTGCCGAGCTGCC  
 AGTGCCAAACCCAGCAGCAGCAGCAATTTGTTGGCCACCTATGCCAGTGAAGCCTCAGCCAGCGGCA  
 GCACGGCTGGTGAACGGCGGGGACATTTGCATTAGGTAGCCTGGCTGCTGCTACTGCTCAACCAATGG  
 ATACTTTGGAGCTGCCTCGCCCCTAGCTGCCAGTGCCTTCTAGGGACAGAGAAAATCCACAGATGGATCA  
 AAGGATGTAGTTGAAATAGCAGTTCAGAAAACCTTAGTTGGTGAATACTTGGCAAAGGAGGAAAAACCT  
 TAGTGGAAATACCAGGAGTTGACTGGTGAAGGATACAGATCTCCAAAAGGGAGAATTCGTACCTGGCAC  
 AAGGAATCGGAAGGTAACCATTACTGGAACACCAGCTGCAACACAGGCTGCTCAGTATTTAATTACACAG  
 AGGATCACATATGAGCAAGGAGTTCGGGCTGCCAATCCTCAGAAAAGTGGGT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG225500 representing NM\_021361  
 Red=Cloning site Green=Tags(s)

MMAAAPIQQNGHTGVPIDLDPPDSRKRPLEAPPEAGSTKRTNTGEDGQYFLKVLIPSYAAGSIIGKGGQ  
 TIVQLQKETGATIKLSKSKDFYPGTTTERVCLIQGTIEALNAVHGFIAEKIREMPQNVAKTEPVSILQPQT  
 TVNPDRIKQTLPSPTTTKSSPSDPMTTSRANQVKIIVPNSTAGLIIGKGGATVKAIMEQSGAWVQLSQK  
 PDGINLQERVVTVSPEPEQNRKAVELIIQKIQEDPQSGSCLNISYANVTGPVANSNPTGSPYANTAEVLP  
 TAAAAAGLLGHANLAGVAAPAVLSGFTGNDLVAITSALNNTLASYGYNLNTLGLLSQAAATGALAAAAA  
 SANPAAAAANLLATYASEASASGSTAGGTAGTFALGSLAAATAATNGYFGAASPLAASAILGTEKSTDGS  
 KDVVEIAPENLVGAILGKGGKTLVEYQELTGARIQISKKGEFVPGTRNRKVTITGTPAATQAAQYLITQ  
 RITYEQGVRAANPQKVG

**TRTRPLE** – GFP Tag – V

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1448\\_e03.zip](https://cdn.origene.com/chromatograms/ja1448_e03.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_021361

**ORF Size:** 1521 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.

**RefSeq:** [NM\\_021361.2](#)

**RefSeq Size:** 7000 bp

**RefSeq ORF:** 1524 bp

**Locus ID:** 664883

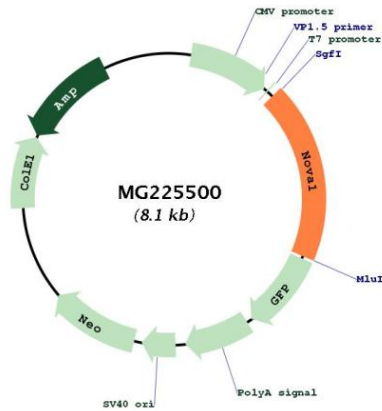
**UniProt ID:** [Q9JKN6](#)

**Cytogenetics:** 12 21.46 cM

**Gene Summary:**

Functions to regulate alternative splicing in neurons by binding pre-mRNA in a sequence-specific manner to activate exon inclusion. It binds specifically to the sequence UCAUY. Most likely acts to activate the inclusion of exon E3A in the glycine receptor alpha-2 chain and of exon E9 in gamma-aminobutyric-acid receptor gamma-2 subunit via a distal downstream UCAU-rich intronic splicing enhancer.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG225500