

## Product datasheet for **MC217242**

### **Nova1 (NM\_021361) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nova1 (NM_021361) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nova1
Synonyms:	9430099M15Rik; G630039L02; Nova-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC217242 representing NM\_021361  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGGCGGCAGCTCCATTACAGACAACGGGACCCATACGGGGTTCATAGATCTGGACCCGCCGG  
 ACTCGCGGAAAAGGCCGCTTGAAGCGCCCCTGAAGCCGGCAGCACCAAGAGGACCAACACGGGCGAAGA  
 CGGCCAGTACTTTCTAAAGTTCTCATACCTAGTTATGCTGCTGGATCTATAATTGGGAAGGGAGGACAG  
 ACAATTGTTCAAGTTGCAAAAAGAACTGGAGCCACTATCAAGCTGTCTAAATCCAAAGATTTTTATCCAG  
 GTACTACTGAGAGGGTTTCTTGTATCCAGGGAACAATTGAAGCGCTGAACGCAGTTCATGGATTCATTGC  
 AGAAAAATCCGAGAAATGCCCAAAATGTTGCCAAGACAGAACCAGTCAGTATCTACAACCTCAGACC  
 ACCGTTAATCCTGATCGCATCAAACAACATTGCCATCTCCCAACTACCACCAAGTCTCTCCATCTG  
 ACCCCATGACCACCTCCAGAGCCAATCAGGTAAGATTAGTTCACACAGCACAGCAGGTCTGATAAT  
 AGGGAAGGGAGGTGCTACTGTGAAGGCTATAATGGAGCAGTCAGGGGCTTGGGTGCAGCTTCCAGAAA  
 CCCGATGGGATCAACTTGAAGAGAGGGTTGCTACTGTGAGTGGAGAACCCTGAACAAAACCGAAAAGCTG  
 TTGAACTTATCATCCAGAAGATACAAGAGGATCCACAGAGTGGCAGCTGTCTCAATATCAGTTATGCCAA  
 TGTGACAGGTCCAGTGGCAAATTCATCCAAACCGGATCTCCTTATGCAAACTGCTGAAGTGTACCA  
 ACTGCCGAGCAGCCGCAGGGCTATTAGGACATGCTAACCTTGCTGGCGTTGCGGCTTTCCAGCAGTTT  
 TATCTGGCTTACAGGCAATGACCTGGTGGCCATCACCTCTGCACTTAATACATTAGCCAGCTATGGATA  
 TAATCTCAACACATTAGGTTTAGGTCTCAGCCAAGCAGCAGCAACGGGGCTTTGGCTGCCGAGCTGCC  
 AGTGCCAAACCCAGCAGCAGCAGCAATTTGTTGGCCACCTATGCCAGTGAAGCCTCAGCCAGCGGCA  
 GCACGGCTGGTGGAACGGCGGGGACATTTGCATTAGGTAGCCTGGCTGCTACTGCTCAACCAATGG  
 ATACTTTGGAGCTGCCTCGCCCCTAGTGCAGTGCCTTCTAGGGACAGAGAAAATCCACAGATGGATCA  
 AAGGATGTAGTTGAAATAGCAGTTCAGAAAATAGTTGGTGAATACTTGGCAAAGGAGGAAAAACCT  
 TAGTGGAAATACCAGGAGTTGACTGGTGAAGGATACAGATCTCCAAAAGGGAGAATTCGTACCTGGCAC  
 AAGGAATCGGAAGGTAACCATTACTGGAACACCAGCTGCAACACAGGCTGCTCAGTATTTAATTACACAG  
 AGGATCACATATGAGCAAGGAGTTCGGGCTGCCAATCCTCAGAAAAGTGGGTTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Chromatograms:** [https://cdn.origene.com/chromatograms/ja1174\\_e08.zip](https://cdn.origene.com/chromatograms/ja1174_e08.zip)
- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_021361
- Insert Size:** 1524 bp
- OTI Disclaimer:** 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).
- 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\\_021361.1](#), [NP\\_067336.1](#)

**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]