

Product datasheet for **MR225500**

Nova1 (NM_021361) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nova1 (NM_021361) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR225500 representing NM_021361
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGGCGGCAGCTCCATTACAGCAGAACGGGACCCATACGGGGTTCCCATAGATCTGGACCCGCGG
 ACTCGCGGAAAAGGCCGCTTGAAGCGCCCCCTGAAGCCGGCAGCACCAAGAGGACCAACACGGGCGAAGA
 CGGCCAGTACTTTCTAAAGGTTCTCATACCTAGTTATGCTGCTGGATCTATAATTGGGAAGGGAGGACAG
 ACAATTGTTCAAGTTGCAAAAAGAACTGGAGCCACTATCAAGCTGTCTAAATCCAAAGATTTTTATCCAG
 GTACTACTGAGAGGGTTTCTTGTATCCAGGGAACAATTGAAGCGCTGAACGCAGTTCATGGATTCATTGC
 AGAAAAATCCGAGAAATGCCCAAAATGTTGCCAAGACAGAACCAGTCAGTATCTACAACCTCAGACC
 ACCGTTAATCCTGATCGCATCAAACAACATTGCCATCTCCCAACTACCACCAAGTCTCTCCATCTG
 ACCCCATGACCACCTCCAGAGCCAATCAGGTAAGATTATAGTTCCCAACAGCACAGCAGGTCTGATAAT
 AGGGAAGGGAGGTGCTACTGTGAAGGCTATAATGGAGCAGTCAGGGGCTTGGGTGCAGCTTCCAGAAA
 CCCGATGGGATCAACTTGAAGAGAGGGTTGCTACTGTGAGTGGAGAACCCTGAACAAAACCGAAAAGCTG
 TTGAACTTATCATCCAGAAGATACAAGAGGATCCACAGAGTGGCAGCTGTCTCAATATCAGTTATGCCAA
 TGTGACAGGTCCAGTGGCAAATTCCAATCCAACCGGATCTCCTTATGCAAACTGCTGAAGTGTACCA
 ACTGCCGAGCAGCCGACGGGCTATTAGGACATGCTAACCTTGCTGGCGTTGCGGCCCTTCCAGCAGTTT
 TATCTGGCTTACAGGCAATGACCTGGTGGCCATCACCTCTGCACTTAATACATTAGCCAGCTATGGATA
 TAATCTCAACACATTAGGTTTAGGTCTCAGCCAAGCAGCAGCAACGGGGCTTTGGCTGCCGAGCTGCC
 AGTGCCAAACCCAGCAGCAGCAGCAATTTGTTGGCCACCTATGCCAGTGAAGCCTCAGCCAGCGGCA
 GCACGGCTGGTGAACGGCGGGGACATTTGCATTAGGTAGCCTGGCTGCTGCTACTGCAACCAATGG
 ATACTTTGGAGCTGCCTCGCCCCCTAGCTGCCAGTGCCTTCTAGGGACAGAGAAAATCCACAGATGGATCA
 AAGGATGTAGTTGAAATAGCAGTTCAGAAAATAGTTGGTGAATACTTGGCAAAGGAGGAAAAACCT
 TAGTGGAAATACCAGGAGTTGACTGGTGAAGGATACAGATCTCCAAAAGGGAGAATTCGTACCTGGCAC
 AAGGAATCGGAAGGTAACCATTACTGGAACACCAGCTGCAACACAGGCTGCTCAGTATTTAATTACACAG
 AGGATCACATATGAGCAAGGAGTTCGGGCTGCCAATCCTCAGAAAAGTGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225500 representing NM_021361
 Red=Cloning site Green=Tags(s)

MMAAAPIQQNGHTGVPIIDLPPDSRKRPLEAPPEAGSTKRTNTGEDGQYFLKVLIPSYAAGSIIGKGGQ
 TIVQLQKETGATIKLSKSKDFYPGTTERVCLIQGTIEALNAVHGFIAEKIREMPQNVAKTEPVSILQPQT
 TVNPDRIKQTLPSPTTTKSSPDMTTSRANQVKIIVPNSTAGLIIGKGGATVKAIMEQSGAWVLSQK
 PDGINLQERVVTVSGEPEQNRKAVELIIQKIQEDPQSGSCLNISYANVTGPVANSNPTGSPYANTAEVLP
 TAAAAAGLLGHANLAGVAFFPAVL SGFTGNDLVAITSALNLTASYGNLNTLGLLSQAAATGALAAAAA
 SANPAAAAANLLATYASEASASGSTAGGTAGTFALGSLAAATAATNGYFGAASPLAASA ILGTEKSTDGS
 KDVVEIAVPENLVGAILGKGGKTLVEYQELTGARIQISKKGEFVPGTRNRKVTITGTPAATQAAQYLITQ
 RITYEQGVRAANPQKVG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9093_h06.zip

Restriction Sites:

SgfI-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

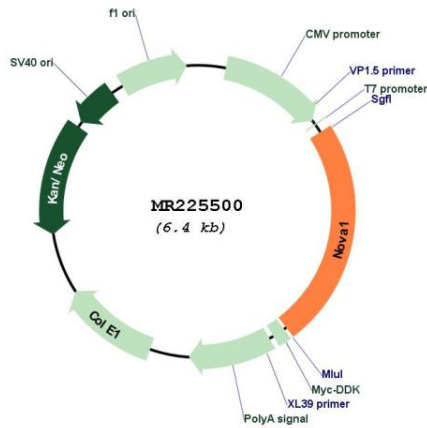
UniProt ID: [Q9JKN6](#)

Cytogenetics: 12 21.46 cM

MW: 51.8 kDa

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 MR225500