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Product datasheet for RC216200

NOVA2 (NM_002516) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOVA2 (NM_002516) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NOVA2
Synonyms:	ANOVA; NEDASB; NOVA-2; NOVA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC216200 representing NM_002516
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCCGAGGCCCCGGATTCCCGCAAGAGGCCCCTCGAAACGCCCCCCGAGGTGGTCTGCACCAAGC
GCAGCAACACGGGAGAGGAAGGCGAATACTTCCTGAAGGTGCTGATCCCCAGCTACGCGGCGGGCTCCAT
CATTGGCAAGGGCGGGCAGACCATCGTGCAGCTGCAGAAGGAGACCGGAGCCACCATCAAGCTCTCCAAG
TCCAAAGACTTCTACCCCGGAACCACAGAGCGGGTATGCCTAGTACAGGGCACGGCAGAGGCCTTGAATG
CTGTGCACAGCTTTATTGCCGAGAAGGTCCGAGAAATCCCACAAGCGATGACCAAGCCTGAGGTGGTCAA
CATCCTTCAACCCCAAACCACGATGAACCCCGACAGAGCCAAGCAGGCCAAGCTGATCGTCCCCAACAGC
ACGGCGGGCCTGATCATCGGCAAGGGAGGCGCCACGGTGAAAGCCGTGATGGAACAGTCAGGAGCATGGG
TGCAGCTGTCCCAGAAGCCGGAGGGCATCAACCTGCAGGAGCGCGTGGTGACGGTCAGCGGCGAGCCCGA
GCAGGTGCACAAGGCCGTGAGCGCCATCGTGCAGAAGGTACAAGAAGACCCCCAGAGCAGCAGCTGCCTC
AACATCAGCTACGCCAACGTGGCAGGCCCCGTGGCCAACTCCAACCCCACCGGCTCTCCGTACGCCAGCC
CCGCGGATGTGCTGCCAGCCGCGGCCGCAGCGTCGGCCGCCGCCGCCTCCGGCCTGCTGGGCCCCGCCGG
GCTGGCTGGCGTGGGGGCCTTTCCCGCCGCGCTGCCCGCCTTCTCAGGCACCGACCTGCTGGCCATCAGC
ACGGCGCTTAACACGCTGGCAAGTTACGGCTACAACACCAACTCCCTGGGCCTGGGCCTCAACTCGGCCG
CAGCTTCCGGCGTCCTGGCCGCCGTGGCCGCCGGGGCCAACCCAGCAGCCGCCGCCGCCGCCAACCTCCT
GGCATCCTACGCGGGCGAGGCCGGGGCCGGGCCAGCCGGAGGGGCCGCCCCGCCGCCGCCCCCGCCTCCC
GGAGCCCTGGGGTCCTTTGCGTTGGCCGCAGCCGCCAACGGCTACCTCGGGGCCGGGGCGGGCGGCGGGG
CGGGCGGAGGGGGCGGCCCGCTGGTGGCCGCTGCAGCCGCGGCCGGGGCGGCCGGGGGCTTCCTGACGGC
GGAGAAGCTGGCGGCTGAGAGTGCCAAGGAGCTGGTGGAGATTGCGGTGCCTGAGAACCTGGTGGGAGCC
ATCCTGGGGAAGGGGGGCAAGACGTTGGTGGAGTACCAGGAGCTGACGGGCGCTCGCATCCAGATCTCCA
AGAAGGGCGAGTTCCTGCCAGGCACGCGGAACCGGCGGGTCACCATCACGGGCAGCCCCGCGGCCACGCA
AGCCGCTCAATACCTCATCAGTCAGCGGGTCACCTACGAGCAGGGAGTGAGGGCCTCAAACCCCCAGAAA
GTGGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216200 representing NM_002516
Red=Cloning site Green=Tags(s)

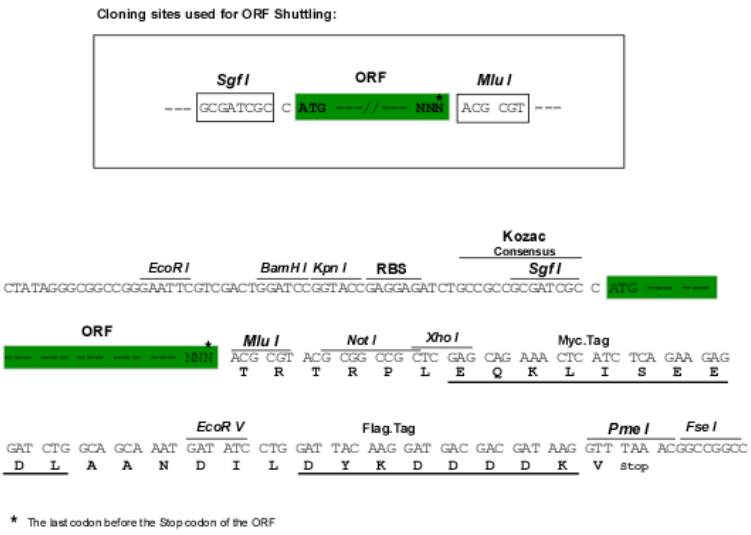
MEPEAPDSRKRPLETPPEVVCTKRSNTGEEGEYFLKVLIPSYAAGSIIGKGGQTIVQLQKETGATIKLSK
SKDFYPGTTERVCLVQGTAEALNAVHSFIAEKVREIPQAMTKPEVVNILQPQTTMNPDRAKQAKLIVPNS
TAGLIIGKGGATVKAVMEQSGAWVQLSQKPEGINLQERVVTVSGEPEQVHKAVSAIVQKVQEDPQSSSCL
NISYANVAGPVANSNPTGSPYASPADVLPAAAAASAAAASGLLGPAGLAGVGAFPAALPAFSGTDLLAIS
TALNTLASYGYNTNSLGLGLNSAAASGVLAAVAAGANPAAAAAANLLASYAGEAGAGPAGGAAPPPPPPP
GALGSFALAAAANGYLGAGAGGGAGGGGGPLVAAAAAAGAAGGFLTAEKLAAESAKELVEIAVPENLVGA
ILGKGGKTLVEYQELTGARIQISKKGEFLPGTRNRRVTITGSPAATQAAQYLISQRVTYEQGVRASNPQK
VG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4305_f09.zip

Restriction Sites: SgfI-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.

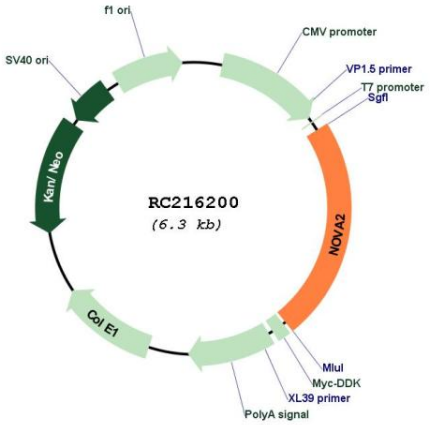
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

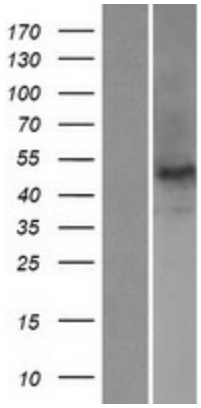
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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
MW:	48.8 kDa
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]

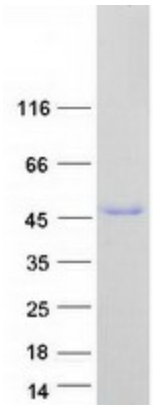
Product images:



Circular map for RC216200



Western blot validation of overexpression lysate (Cat# [LY419278]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216200 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NOVA2 protein (Cat# [TP316200]). The protein was produced from HEK293T cells transfected with NOVA2 cDNA clone (Cat# RC216200) using MegaTran 2.0 (Cat# [TT210002]).