

## Product datasheet for RC214612

### NOVA1 (NM\_006491) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NOVA1 (NM\_006491) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NOVA1  
**Synonyms:** Nova-1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC214612 representing NM\_006491  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGCGGCAGCTCCCATCCAGCAGAACGGGACCCACACTGGGGTCCCATAGACCTGGACCCGCCGG  
ACTCGCGGAAAAGCCGCTGGAAGCCCCCTGAAGCCGGCAGCACCAAGAGGACCAATACGGGCGAAGA  
CGGCCAGTATTTCTAAAGGTTCTCATACCTAGTTATGCTGCTGGATCTATAATTGGGAAGGAGGACAG  
ACAATTGTTCAAGTTGCAAAAAGAACTGGAGCCACCATCAAGCTGTCTAAGTCCAAGATTTTTACCCAG  
GTACTACTGAGCGAGTGTGCTTGTATCCAGGGAACGGTTGAAGCACTGAATGCAGTTCATGGATTCATTGC  
AGAAAAAATTCGAGAAATGCCCAAAATGTGGCCAAGACAGAACCAGTCAGCATTCTACAACCCAGACC  
ACCGTTAATCCAGATCGCATCAAACAAACATTGCCATCTTCCCAACTACCACCAAGTCCTCTCCATCTG  
ATCCCATGACCACCTCCAGAGCTAATCAGAAGCATAATATCTCCTGGATATCA

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC214612 representing NM\_006491  
Red=Cloning site Green=Tags(s)

MMAAAPIQQNGHTGVPIIDLPPDSRKRPLEAPPEAGSTKRTNTGEDGQYFLKVLIPSYAAGSIIGKGGQ  
TIVQLQKETGATIKLSKSKDFYPGTTERVCLIQGTVEALNAVHGFIAEKIREMPQNVAKTEPVSILQPQT  
TVNPDRIKQTLPSPTTTKSSPSDPMTTSRANQKHNIWSIS

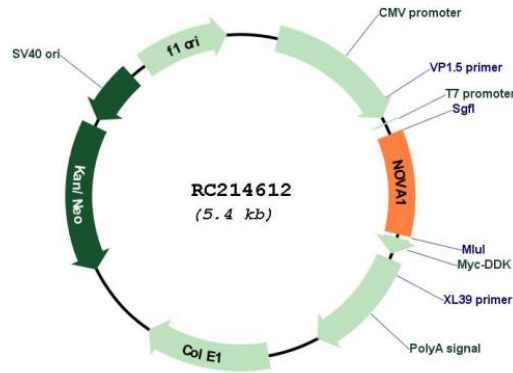
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_006491

**ORF Size:** 543 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006491.2</a> , <a href="#">NP_006482.1</a>
<b>RefSeq Size:</b>	1210 bp
<b>RefSeq ORF:</b>	546 bp
<b>Locus ID:</b>	4857
<b>UniProt ID:</b>	<a href="#">P51513</a>
<b>Cytogenetics:</b>	14q12
<b>Domains:</b>	KH
<b>MW:</b>	19.3 kDa
<b>Gene Summary:</b>	This gene encodes a neuron-specific RNA-binding protein, a member of the Nova family of paraneoplastic disease antigens, that is recognized and inhibited by paraneoplastic antibodies. These antibodies are found in the sera of patients with paraneoplastic opsoclonus-ataxia, breast cancer, and small cell lung cancer. Alternatively spliced transcripts encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]