

Product datasheet for **RG214612**

NOVA1 (NM_006491) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NOVA1 (NM_006491) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NOVA1
Synonyms: Nova-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214612 representing NM_006491
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGCGGCAGCTCCCATCCAGCAGAACGGGACCCACACTGGGGTCCCATAGACCTGGACCCGCCG
ACTCGCGGAAAAGCCGCTGGAAGCCCCCTGAAGCCGGCAGCACCAAGAGGACCAATACGGGCGAAGA
CGGCCAGTATTTCTAAAGTTCTCATACCTAGTTATGCTGCTGGATCTATAATTGGGAAGGGAGGACAG
ACAATTGTTCAAGTTCAGTTGCAAAAAGAACTGGAGCCACCATCAAGCTGTCTAAGTCCAAGATTTTTACCCAG
GTACTACTGAGCGAGTGTGCTTGATCCAGGGAACGGTTGAAGCACTGAATGCAGTTCATGGATTCATTGC
AGAAAAAATTCGAGAAATGCCCAAAATGTGGCCAAGACAGAACCAGTCAGCATTCTACAACCCAGACC
ACCGTTAATCCAGATCGCATCAAACAAACATTGCCATCTTCCCAACTACCACCAAGTCCTCTCCATCTG
ATCCCATGACCACCTCCAGAGCTAATCAGAAGCATAATATCTCCTGGATATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214612 representing NM_006491
Red=Cloning site Green=Tags(s)

MMAAAPIQQNGHTGVPIDLPPDSRKRPLEAPPEAGSTKRTNTGEDGQYFLKVLIPSYAAGSIIIGKGGQ
TIVLQKETGATIKLSKSKDFYPGTTERVCLIQGTVEALNAVHGFIAEKIREMPQNVAKTEPVSILQPQT
TVNPDRIKQTLPSPTTTKSSPSDPMTTSRANQKHNIWS

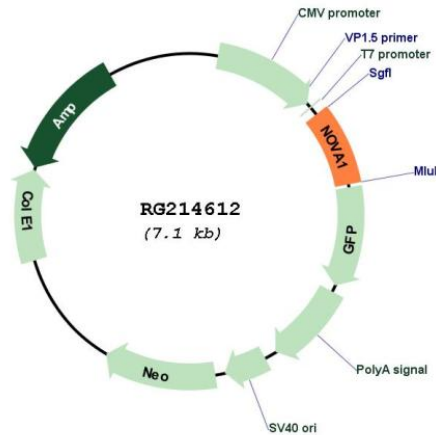
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-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.

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:	<ol style="list-style-type: none">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:	<u>NM_006491.2</u> , <u>NP_006482.1</u>
RefSeq Size:	1210 bp
RefSeq ORF:	546 bp
Locus ID:	4857
UniProt ID:	<u>P51513</u>
Cytogenetics:	14q12
Domains:	KH
Gene Summary:	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]