

Product datasheet for **RG221328**

NOVA1 (NM_006489) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOVA1 (NM_006489) 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)



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ORF Nucleotide Sequence:

>RG221328 representing NM_006489
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGGCGGCAGCTCCCATCCAGCAGAACGGGACCCACACTGGGGTCCCATAGACCTGGACCCGCCGG
 ACTCGCGGAAAAGGCCGCTGGAAGCCCCCCTGAAGCCGCGCAGCACCAAGAGGACCAATACGGGCGAAGA
 CGGCCAGTATTTTCTAAAGGTTCTCATACCTAGTTATGCTGCTGGATCTATAATTGGGAAGGGAGGACAG
 ACAATTGTTCAAGTTGCAAAAAGAACTGGAGCCACCATCAAGCTGTCTAAGTCCAAAAGTTTTTACCCAG
 GTACTACTGAGCGAGTGTGCTTGTCCAGGGAACGGTTGAAGCACTGAATGCAGTTCATGGATTCATTGC
 AGAAAAAATTCGAGAAATGCCCAAAATGTGGCCAAGACAGAACCAGTCAGCATTCTACAACCCAGACC
 ACCGTTAATCCAGATCGCATCAAACAAGTAAAGATTATAGTTCCCAACAGCACAGCAGGTCTGATAATAG
 GGAAGGGAGGTGCTACTGTGAAGGCTGTAAATGGAGCAGTCAGGGGCTTGGGTGCAGCTTTCCAGAAACC
 TGATGGGATCAACTTGAAGAGAGGGTTGTCACCTGTGAGTGGAGAACCTGAACAAAACCGAAAAGCTGTT
 GAATTATCATCCAGAAGATACAAGAGGATCCACAAGTGGCAGCTGTCTCAATATCAGTTATGCCAATG
 TGACAGGTCCAGTGGCAAATCCAAATCCAAACCGGATCTCCTTATGCAAACACTGTGAAGTGTACCAAC
 TGCTGCAGCAGCTGCAGGGCTATTAGGACATGCTAACCTTGTGGCGTTGCAGCCTTTCCAGCAGTTTTA
 TCTGGCTTACAGGCAATGACCTGGTGGCCATCACCTCTGCACCTAATACATTAGCCAGCTATGGATATA
 ATCTCAACACTTTAGGTTTAGGTCTCAGTCAAGCAGCAGCAACAGGGGCTTTGGCTGCAGCAGCTGCCAG
 TGCCAACCCAGCAGCAGCAGCAATTTATTGGCCACCTATGCCAGTGAAGCCTCAGCCAGTGGCAGC
 ACAGCTGGTGGTACGGCGGGGACATTTGCATTAGGTAGCCTGGCTGCTGCTACTGCTGCAACCAATGGAT
 ATTTTGGAGCTGCTTCTCCCCTAGCTGCCAGTCCATTCTAGGAACAGAAAAGTCCACAGATGGATCCAA
 GGATGTAGTTGAAATAGCAGTGGCCAGAAAACCTTAGTTGGTGCAATACTTGGCAAAGGAGGAAAACATTA
 GTGGAATACCAGGAGTTGACTGGTGCAAGGATACAGATCTCAAAAAAGGAGAATTCGTACTGGCACAA
 GGAATCGGAAGGTAACCATTAAGTGAACACCAGCTGCAACACAGGCTGCTCAATATTTAATTACACAAAG
 GATCACATATGAGCAAGGAGTTCGGGCTGCCAATCCTCAGAAAAGTGGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221328 representing NM_006489
 Red=Cloning site Green=Tags(s)

MMAAAPIQQNGHTGVPIIDLPPDSRKRPLEAPPEAGSTKRTNTGEDGQYFLKVLIPSYAAGSIIGKGGQ
 TIVQLKETGATIKLSKSKDFYPGTTERRVLIQGTVEALNAVHGFIAEKIREMPQNVAKTEPVSILQPQT
 TVNPDRIKQVKIIVPNSTAGLIIGKGGATVKAVMEQSGAWVQLSQKPDGINLQERVVTVSGEPEQNRKAV
 ELIIQKIQEDPQSGSCLNISYANVTGPVANSNPTGSPYANTAIEVLPAAAAAGLLGHANLAGVAFFPAVL
 SGFTGNDLVAITSAIENLASYGNLNLGLLSQAAATGALAAAAASANPAAAAANLLATYASEASASGS
 TAGGTAGTFALGSLAAATAATNGYFGAASPLAASAILGTEKSTDGSKDVVEIAVPENLVGAILGKGGKTL
 VEYQELTGARIQISKKGEFVPGTRNRKVTITGTPAATQAAQYLITQRITYEQGVRAANPQKVG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006489

ORF Size: 1449 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_006489.3](#)

RefSeq Size: 3846 bp

RefSeq ORF: 1452 bp

Locus ID: 4857

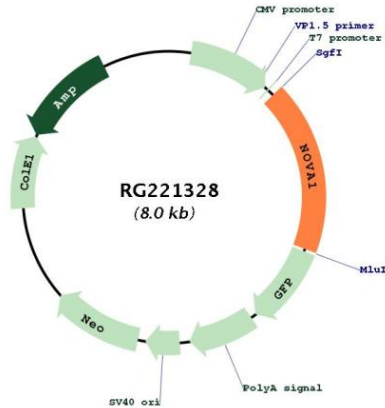
UniProt ID: [P51513](#)

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]

Product images:



Circular map for RG221328