

Product datasheet for **SC109497**

NOVA1 (NM_006489) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | NOVA1 (NM_006489) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NOVA1 |
| Synonyms: | Nova-1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_006489, the custom clone sequence may differ by one or more nucleotides |

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ATGATGGCGGAGCTCCCATCCAGCAGAACGGGACCCACACTGGGGTTCATAGACCTGGACCCGCCG  
ACTCGCGGAAAAGGCCGCTGGAAGCCCCCCTGAAGCCGGCAGCACCAAGAGGACCAATACGGGCGAAGA  
CGGCCAGTATTTCTAAAGGTTCTCATACCTAGTTATGCTGCTGGATCTATAATTGGGAAGGAGGACAG  
ACAATTGTTTCAGTTGCAAAAAGAACTGGAGCCACCATCAAGCTGTCTAAGTCCAAGATTTTTACCCAG  
GTACTACTGAGCGAGTGTGCTTGATCCAGGGAACGGTTGAAGCACTGAATGCAGTTCATGGATTCATTGC  
AGAAAAAATTCGAGAAATGCCCAAAATGTGGCCAAGACAGAACCAGTCAGCATTCTACAACCCAGACC  
ACCGTTAATCCAGATCGCATCAAACAAGTAAAGATTATAGTTCCTAACAGCACAGCAGGCTGATAATAG  
GGAAGGGAGGTGCTACTGTGAAGGCTGTAATGGAGCAGTCAGGGGCTTGGGTGCAGCTTTCCAGAAACC  
TGATGGGATCAACTTGCAAGAGAGGGTGTCACTGTGAGTGGAGAACCTGAACAAAACCGAAAAGCTGTT  
GAACTTATCATCCAGAAGATACAAGAGGATCCACAAAAGTGGCAGCTGTCTCAATATCAGTTATGCCAATG  
TGACAGGTCCAGTGGCAAATCCAATCAAACCGGATCTCCTTATGCAAACACTGCTGAAGTGTACCAAC  
TGCTGCAGCAGCTGCAGGGCTATTAGGACATGCTAACCTGTGGCGTTGCAGCCTTTCCAGCAGTTTTA  
TCTGGCTTCACAGGCAATGACCTGGTGGCCATCACCTCTGCACTTAATACATTAGCCAGCTATGGATATA  
ATCTCAACACTTTAGGTTTAGGTCTCAGTCAAGCAGCAGCAACAGGGGCTTTGGTGCAGCAGCTGCCAG  
TGCCAAACCCAGCAGCAGCAGCAATTTATTGGCCACCTATGCCAGTGAAGCCTCAGCCAGTGGCAGC  
ACAGCTGGTGGTACGGCCGGGACATTTGCATTAGGTAGCCTGGCTGCTACTGCTGCAACCAATGGAT  
ATTTTGGAGCTGCTTCTCCCCTAGCTGCCAGTGCCATTCTAGGAACAGAAAAGTCCACAGATGGATCCAA  
GGATGTAGTTGAAATAGCAGTGCAGAAAACCTTAGTTGGTGAATACTTGGCAAAGGAGGAAAACATTA  
GTGGAATACCAGGAGTTGACTGGTGAAGGATACAGATCTCAAAAAAGGAGAATTCGTACCTGGCACAA  
GGAATCGGAAGGTAACCATTAAGTGAACACCAGCTGCAACACAGGCTGCTCAATATTTAATTACACAAG  
GATCACATATGAGCAAGGAGTTCGGGCTGCCAATCCTCAGAAAAGTGGGTTGA
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_006489 unedited CAAATTTGTATACGACTACTATAGGGCGGCCGCGATTCCGGCACGAGGGAAAAAACCTTA AGAAACCCCAAACGCAAAAGAAAAAAGAAAAAAGAAAAAGAAAAAGCC AAAACAAAAGGGAGAACCTTCTCCCGGTAGCAGCGGCAGGAACTGCAAACATGATGGCGG CAGCTCCCATCCAGCAGAACGGGACCCACACTGGGGTCCCATAGACCTGGACCCGCCG ACTCGCGGAAAAGGCCGCTGGAAGCCCCCTGAAGCCGGCAGCACCAAGAGGACCAATA CGGGCGAAGACGGCCAGTATTTTCTAAAGTTTCTACACCTAGTTATGCTGCTGGATCTA TAATTGGGAAGGGAGACAGACAATTGTTCAAGTTGCAAAAAGAACTGGAGCCACCATCA AGCTGTCTAAGTCCAAAGATTTTACCAGGTAAGTACTGAGCGAGTGTGCTTGATCCAGG GAACGGTTGAAGCACTGAATGCAGTTCATGGATTATTGCAGAAAAAATTCGAGAAATGC CCCAAAATGTGGCCAAGACAGAACCAGTCAGCATTCTACAACCCAGACCACCGTTAATC CAGATCGCATCAAACAAGTAAAGATTATAGTTCCCAACAGCACAGCAGGTCTGATAATAG GGAAGGGAGGTGCTACTGTGAAGGCTGTAATGGAGCAGTCAGGGGCTGGGTGCAGCTTT CCCAGAACCTGATGGGATCAACTTNGCAGAGAGGGTGTCACTGTGAGTGGAGAACTGAAC AAACCCGAAAGCTGNTGAACTATCATCCAGAAGATCAAGAAGATCCCNCAAGTGGCAGC TGCTCTCAATATCAGGTATGCCCATGTGACAGTTCCAGTGGCAAAATCCAATCNACCGGAT CTNCTATGCAAACTGCTGAAGNGTACAACCTGCTGCANCACTGCGGGCTATTAGC</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_006489 unedited CTATGGACCGGCCGCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTACATGAT GAACCTAAGCACATTTATAATGATAAAATGAGTAAATAAATAGCGGCAATGCTAACCCT GATTCACGAGATACACTATTTGTCAAACTTACACAGCTACAGAGTATCGACGATAAAT AGTCATTACCAATTAACACAGTTTACTACAGCTTTTCTTTTCATTTAAACAAGCATATC ATTCCTTTTAAATCATTCTCTAAATAAATATTTAGAGATAGAGAACTTAAATGAAAT AACAGTCCAATGTAAAACTAAAAAAGAAAAAATGAGTCTACTCTTACAGTTTGACAGA AATGAATTATTAATAGTGAAGGGGAAGGGATCAGGAAATAATTTCAAGTTCTCAATGTC CAAAAGTAAATTCACAGTAAATCAATATGAAATGAAGAGTCCATATAGTTCAATGAACA AAAGGGAAAGTTCATGAGGACAAAGATCACAGTTCAGAGAGAGGCTGGACGAAATTCAGA CATGGAGCATCACACTCATTGTTCTTTAATTGGTTGCACAGAAAGGAGCAGCTGGGATGC CATTTAGCTTGTAGGATGGACGTAATCAATGGGNTTGAAGTTGAGAATGAAAGTAAATTC TCTTTTGAATTCAGTTGCTCAGCCAGATGATCCAGAGGTAGCCAGCATTTTATTTTTGG CCATTGAATTTAAGACTGCATGCACAGCATGGAGAGGTGCTTGGGGATGGATGCCCT ATGAGTGGCCCTTGAGTGGCCAACTCAGAGGTTAACAAGGGGGTGCCTAATGGCCTGTA CCAGTGGGCTCATGAAAAGGCCGAAGAGGGGGACAGTTGTTGGGCTGGGAACAAGGGC TAATCTTGAAGGACCGGGAAAAAGACTGAGAAAGGGGATACCACTCCGTTNAGAAAAGCT GGGCTCTTTAAATAGGATGCGCGGAACACTGCTGTGTTGGG</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_006489 |
| Insert Size: | 3780 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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_006489.2](#), [NP_006480.2](#)

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]
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting protein (isoform 2) is shorter, compared to isoform 1.