

Product datasheet for **RG234678**

NVL (NM_001243146) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NVL (NM_001243146) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NVL
Synonyms:	NVL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG234678 representing NM_001243146
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAAACGGAAGGCAAGCTAAAGAATAAAGGAAGCAAAAGGAAGAAAGAAGATCTTCAGGAAGTAGATG
 GAGAAATTGAAGCTGTCTGCAAAAGAAAGCTAAAGCCAGGGGGTTAGAATTCCAGATCTCCAACGTGAA
 GTTTGAAGATGTGGGAGGCAATGATATGACATTAAGAGAGGTCTGCAAGATGCTCATACACATGCGTCAC
 CCGGAGGTGTACCACCACCTGGGCGTCTGCCCTCTGGAGTTCTCCTTCATGGACCACAGGCTGTG
 GGAAGACATTACTGCACATGCAATTGCTGGGCTGAGTGCAGTGGCATGATCACAGCTCACTGCAGCTT
 TGACTTCTCAGGCTCAAATGATCCTCCTGCCTCAGCCTCACAGGAACCTGACCTGCCAATTTGAAAGTG
 GCTGCTCCAGAGATTGTGTCTGGAGTATCCGGAGAGTCTGAGCAGAAGCTGAGAGAACTATTTGAGCAAG
 CTGTGTCAAATGCACCATGTATCATTTTCATTGATGAAATTGATGCTATTACCCCAAAAGAGAAGTGGC
 TTCAAAGATATGGAACGAAGAATTGTAGCCCACTCCTAACCTGCATGGATGATCTGAATAATGTGGCT
 GCTACAGCCCGGTCCTAGTTATTGGAGCTACTAATCGACCAGACTCGTTAGACCCTGCTTTGAGACGTG
 CGGGAAGGTTCCAGCGAGAAATATGCCTAGGTATCCAGATGAAGCATCCAGGGAAGAATACTTCAAAC
 ATTGTGCAGAAACTGAGGCTTCTCAAGCTTTTGATTCTGTCACTTAGCACACCTAACTCCAGGCTTT
 GTTGGTGTGATCTCATGGCACTGTGCCGAGAGGCAGCAATGTGTGCAGTCAATAGAGTCTTAATGAAGC
 TACAGGAACAGCAGAAGAAAACTCTGAAATGGAAGATTTGCCATCTAAGGAGTCCAGGAGGAAAGGCT
 GGAAGACATTAGAGAGGAGCTCACCATGGCAATATTGGCACCAGTACGCAACCCAGACCAGTTCAAAGCT
 CTTGGATTGGTGAATCCAGCTGGGTCCTCCTGCTGGTCTCCTGGCTGTGGGAAGACTCTGCTGGCGA
 AGGCTGTTGCAAAATGAGTCCGACTAAATTTTATATCTGTCAAGGGCCCCGAATTACTAAACATGTATGT
 TGGTGAGAGTGAACGTGCTGTGCGACAAGTTTTCAACGAGCCAAGAACTCAGCACCTGTGTGATATTC
 TTTGATGAAGTGGATGCTTTATGTCTCGAAGATCAGACCGAGAGACAGGGGCAAGTGTCCGAGTGGTGA
 ATCAGCTACTTACAGAGATGGATGGTCTGGAAGCACGCCAGCAGGTTTTTATTATGGCAGCCACTAACAG
 GCCAGATATAATTGACCCTGCAATCCTGCGCCCGGCCCTGGACAAAACACTGTTTGTGGGTTTACCG
 CCCCTGCAGATCGCCTTGCCATCTTAAAACTATCACAAAAATGGTACCAACCACCACTGGATGCAG
 ATGTAAATTTGGAAGCAATTGCTGGTGACCTTCGCTGTGATTGCTATACGGGCGCAGATCTCTGCTTT
 GGTACGAGAAGCTTCTATCTGTGCCCTGAGACAGGAAATGGCAAGACAGAAGAGTGGAATGAAAAAGGT
 GAACTCAAGGTTAGTCATAAGCATTTTGAAGAAGCTTTCAAGAAAGTAAGATCATCTATATCAAAAAAGG
 ATCAAATCATGTATGAACGTTTGAGGAGTCCCTCAGCCGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG234678 representing NM_001243146
 Red=Cloning site Green=Tags(s)

MKRKGKLNKNGSKRKEDLQEVDGEIEAVLQKKAKARGLEFQISNVKFEDVGGNDMTLKEVCKMLIHMRH
 PEVYHHLGVVPPRGVLLHGPPGCGKTL LAHAIAGAECSGMITAHCSEDFSGSNPPASASQELDLPIKLV
 AAEIVSGVSGESEQKLRELFQAVSNAPCIIFIDEIDAITPKREVASKDMERRIVAQLLTCMDDLNNVA
 ATARVLVIGATNRPDSLDPALRRAGRFDRICLGIPDEASRERILQTLCKRLRLPQAFDFCHLAHLTPGF
 VGADLMALCREAMCAVNRVLMKLQEQQKNPEMEDLPKGVQEERLGTEPTSETQDELQRLGLLRDQD
 PLSEEQMQLCIELNDFIVALSSVQPSAKREGFVTPVNTWADIGALEDI REELTMAILAPVRNPQDFKA
 LGLVTPAGVLLAGPPGCGKTL LAKAVANESGLNFISVKGPELLNMYVGESERAVRQVFQRAKNSAPCVIF
 FDEVDALCPRSDRETGASVRVQNQLLTEM DGL EARQQVF IMAATNRPDIIDPAILRPGRDKTLFVGLP
 PPADRLAILKTIKNGTKPPLDADVNLEIAGDLRCDYTGADLSALVREASICALRQEMARQKSGNEKG
 ELKVSHKHFEFAFKKVRSSISKDQIMYERLQESLSR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001243146

ORF Size: 2001 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_001243146.1](#), [NP_001230075.1](#)

RefSeq Size: 2616 bp

RefSeq ORF: 2004 bp

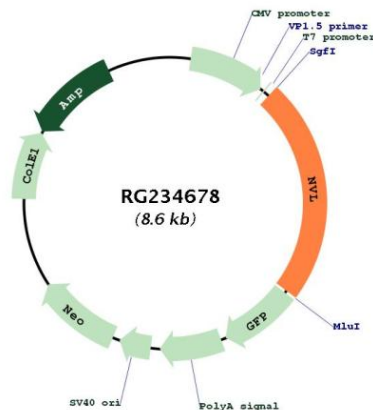
Locus ID: 4931

UniProt ID: [O15381](#)

Cytogenetics: 1q42.11

Gene Summary: This gene encodes a member of the AAA (ATPases associated with diverse cellular activities) superfamily. Multiple transcript variants encoding different isoforms have been found for this gene. Two encoded proteins, described as major and minor isoforms, have been localized to distinct regions of the nucleus. The largest encoded protein (major isoform) has been localized to the nucleolus and shown to participate in ribosome biosynthesis (PMID: 15469983, 16782053), while the minor isoform has been localized to the nucleoplasm. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG234678