

Product datasheet for **SC127076**

NVL (NM_002533) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NVL (NM_002533) Human Untagged Clone
Tag:	Tag Free
Symbol:	NVL
Synonyms:	NVL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127076 sequence for NM_002533 edited (data generated by NextGen Sequencing)

ATGAAGCCCAGACCTGCAGGGTTCGTGGATAATAAACTCAAGCAGCGAGTCATCCAGTAC
 CTTACCAAGTAACAAATGTGGCAAATATGTGGACATTGGAGTCTTAGCGTCTGATTACAA
 AGAGTGTACAGTATAGACTATGGTCAAGAAAAAGAAATGCTTTTAGGATTCAGGTAGAA
 AAAGTATTTAGCATAATTAGTAGTGAGAAGGAAGTAAAGATTTAACAGAATTAGAAGAT
 GAACATTTGGCAAAAAGGCAAGACAAGGTGAAGAGGATAATGAGTATACTGAAAGCTAT
 TCTGATGATGATTCAAGTATGGAAGACTACCCAGATCCACAGTCAGCAAAATCACATGAAC
 AGTTCCCTGCTGTCTTTATATCGAAAGGAAATCCTGATTCTGTTTCAAATACTCCTGAG
 ATGGAGCAAAGAGAAACCACTCTTCAACACCACGAATAAGTTCCAAACAGGCTCCATT
 CCCTTGAAGACCCCTGCCAAAGATTCTGAAGGAGGATGGTTTATTGACAAAACCCCAAGT
 GTAAAGAAAGACAGTTTTTTCTTGACCTGTCTGTGAGAAAAGTAATCCTAAGAAGCCA
 ATAAGTACAGTACAGGATTCAAAGATTCTTCTCTTTGGAGAGTGATATGAAACGGAAA
 GGCAAGCTAAAGAATAAAGGAAGCAAAAGGAAGAAAGAAGATCTTCAGGAAGTAGATGGA
 GAAATTGAAGCTGTCCTACAAAAGAAAGCTAAAGCCAGGGGGTTAGAATTCCAGATCTCC
 AACGTGAAGTTTGAAGATGTGGGAGGCAATGATATGACATTAAAAAGAGGTCTGCAAGATG
 CTCATACACATGCGTCACCCGGAGGTGTACCACCACCTGGGCGTCGTGCCCCCTCGTGGA
 GTTCTCCTTATGGACCAACAGGCTGTGGGAAGACATTACTTGCACATGCAATTGCTGGG
 GAACCTTGACCTGCCAATTTTGAAGTGGCTGCTCCAGAGATTGTGTCTGGAGTATCCGGA
 GAGTCTGAGCAGAAGCTGAGAGAACTATTTGAGCAAGCTGTGTCAAATGCACCATGTATC
 ATTTTCATTGATGAAATTGATGCTATTACCCCCAAAAGAGAAGTGGCTTCAAAGATATG
 GAACGAAGAATTGTAGCCCAACTCCTAACCTGCATGGATGATCTGAATAATGTGGCTGCT
 ACAGCCCGGGTCTAGTTATTGGAGCTACTAATCGACCAGACTCGTTAGACCCTGCTTTG
 AGACGTGCGGGAAGGTTGACCGAGAAATATGCCTAGGTATCCAGATGAAGCATCCAGG
 GAAAGAATACTTCAAACATTGTGCAGAAAACTGAGGCTTCTCAAGCTTTTGATTCTGT
 CACTTAGCACACCTAACTCCAGGCTTTGTTGGTGTGATCTCATGGCACTGTGCCGAGAG
 GCAGCAATGTGTGCAGTCAATAGAGTCTTAATGAAGCTACAGGAACAGCAGAAGAAAAAT
 CCTGAAATGGAAGATTGGCCATCTAAAGGAGTCCAGGAGGAAAGGCTGGGAACTGAGCCC
 ACTTCTGAAACACAGGATGAATTACAAAGGCTGCTGGGGTTGCTAAGAGACCAAGATCCC
 CTCTCAGAGGAGCAGATGCAAGGACTGTGCATTGAACTGAATGATTTTATTGTTGCTCTA
 TCCTCAGTCCAACCTCTGCCAAAAGGGAAGGCTTTGTCACTGTCCCTAATGTGACATGG
 GCAGATATTGGTCCCCTGGAAGACATTAGAGAGGAGCTACCATGGCAATATTGGCACCA
 GTACGCAACCCAGACCAGTTCAAAGCTCTTGGATTGGTGAAGTCCAGCTGGGGTCTCCTT
 GCTGGTCTCCTGGCTGTGGGAAGACTCTGCTGGCGAAGGCTGTTGCAATGAGTCCGGA
 CTAAATTTTATATCTGTCAAGGGCCCCGAATTACTAAACATGTATGTTGGTGAGAGTGAA
 CGTGCTGTGCGACAAGTTTTTCAACGAGCCAAGAACTCAGCACCTGTGTGATTTCTTT
 GATGAAGTGGATGCTTTATGTCTCGAAGATCAGACCGAGAGACAGGGGCAAGTGCCGA
 GTGGTGAATCAGCTACTTACAGAGATGGATGGTCTGGAAGCACGCCAGCAGGTTTTTATT
 ATGGCAGCCACTAACAGGCCAGATATAATTGACCCTGCAATCTGCGCCCGGGCCGCTG
 GACAAAACACTGTTTGTGGGTTTACCGCCCCCTGCAGATCGCCTTGCCATCTTAAAAACT
 ATCACAAAAAATGGTACCAAAACCACCACTGGATGCAGATGTAAATTTGGAAGCAATTGCT
 GGTGACCTTCGCTGTGATTGCTATACGGGCGCAGATCTCTGCTTTGGTACGAGAAGCT
 TCTATCTGTGCCCTGAGACAGGAAATGGCAAGACAGAAGAGTGGAAATGAAAAAGGTGAA
 CTCAAGGTTAGTCATAAGCATTTTGAAGAAGCTTTCAAGAAAGTAAGATCATCTATATCA
 AAAAAGGATCAAATCATGTATGAACGTTTGCAGGAGTCCCTCAGCCGGTGA

Clone variation with respect to NM_002533.3
 456 g=>a;738 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002533 unedited
 TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGGGCTAGGCCCCAGGA
 GGGGCGCATTTTCAGGTGCAACTGGCCCGGCGAACGCGCGGGCAACCCCTACGAGGCCCC
 CGGTTGACTAGGAGCTGGCGGTCCGAGCTGTGGCTTGAAGACCGACGCGATGAAGCCCA
 GACCTGCAGGGTTCGTGGATAATAAACTCAAGCAGCGAGTCATCCAGTACCTTACCAGTA
 ACAAATGTGGCAAATATGTGGACATTGGAGTCTTAGCGTCTGATTACAAAGAGTGATACA
 GTATAGACTATGGTCGAAGAAAAAGAAATGCTTTTAGGATTCAGGTAGAAAAAGTATTTA
 GCATAATTAGTAGTGAGAAGGAACTTAAGAATTTAACAGAATTAGAAGATGAACATTTGG
 CAAAAAGGGCAAGACAAGGTGAAGAGGATAATGAGTATACTGAAAGCTATTCTGATGATG
 ATTCAAGTATGGAAGACTACCCAGATCCACAGTCAGCAAATCACATGAACAGTTCCTCGC
 TGTCTTTATATCGGAAAGGAAATCCTGATTCTGTTTCAAATACTCCTGAGATGGAGCAAA
 GAGAAACCACCTCTTCAACACCACGAATAAGTTCCAAAACAGGCTCCATTCCTTGAAGA
 CCCCTGCCAAAGATTCTGAAGGAGGATGGTTTATTGACAAAACCCCAAGTGAAGAAAG
 ACAGTTTTTTCTTGGACCTGTCATGTGAGAAAGTAATCCTAAGAAGCCATAACTGAGATA
 CAGATTCAAAGATNCTTCTCTTTGGAGAGTGATATGAACGGGAAGGCAGCTAAGATAAAG
 GAGCANAGGAGAAAGAGATCTTCAGAAGTAATGGAGAAATGAGCTGTCTCAAAGAAGCTA
 GCCAGGGGTAGAAATCCGATCTCACGTGAGTTGAGAGTGGAGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002533 unedited
 GTACCGCGGCACGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTATTTGAAAAAGTA
 ACAGTCATTTTATTTTCAGCAGTTTAAAAATGTCCTTTTTCTTAAAGAGGAAGAAGGCATT
 TTCACACAAGGCTGGCCAGATGGGAAGAATCTTCAGCTTCAGCTTCAGCTTGGCCTCATT
 CATTTGAAAAATAAAATGTTTACATGAGGCGCGCCTGTGTCCAGCTGAAAGTGGGTCCCTT
 CAGAGCGTGTGGGGGATTCTCTGCCGGCTTGATGGGCTAGCTCCTCTAAGCCGGCTGCTG
 GAGACATCACCGGCTGAGGGACTCCTGCAAACGTTATACATGATTTGATCCTTTTTTGA
 TATAGATGATCTTACTTTCTTGAAGCTTCTTCAAATGCTTATGACTAACCTTGAGTTC
 ACCTTTTTTCATTTCCACTCTTCTGTCTTGCCATTTCTGTCTCAGGGCACAGATAGAAGC
 TTCTCGTACCAAAGCAGAGAGATCTGCGCCCGTATAGCAATCACAGCGAAGGTCACCAGC
 AATTGCTTCCAAATTTACATCTGCATCCAGTGGTGGTTTGGTACCATTTTTTGTGATAGT
 TTTTAAGATGGCAAGGCGATCTGCANGGGCGGTAAACCCACAAACAGTGTTTTGTCCAG
 GCGGCCCGGGCGCAGGATTGCAGGGTCAATTATATCTGGCTGTAGTGGCTGCCATAAT
 AAAAACTGTGCGGGGCTTCCAGACCCTCCATCTCTGTAAGTAGCTGATTACCCACCTC
 GAACCCTTGCCCCCTTGCTCTCGGCCTGAATCTTCGAGGACCTTAAAGCTTCCCCTTCA
 TCAAAGAATATTACCACAGGGGCTGAAGTTCTTGCTCCGTTGAAAAACCTTGGGAAA
 GGNACGTGCANTCTTAACAACATACCTGGTTTAGAATATCCGGGCCCCCTGCCACAAATA
 AAATTAATCCCGGACTCTTGGAACACACCTGCCCCAGCAAGTTTTTCCCCCGCCCGGAG
 GGACACACAGGCGACCCCNCTGGGTTCCCTCTCCTA

Restriction Sites:

NotI-NotI

ACCN:

NM_002533

Insert Size:

2870 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:	<u>NM_002533.2, NP_002524.2</u>
RefSeq Size:	2921 bp
RefSeq ORF:	2571 bp
Locus ID:	4931
UniProt ID:	<u>O15381</u>
Cytogenetics:	1q42.11
Domains:	AAA, AAA
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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest protein (isoform 1, also known as NVL.2 or the major isoform).