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Product datasheet for SC116281

NELL2 (NM_006159) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NELL2 (NM_006159) Human Untagged Clone
Tag:	Tag Free
Symbol:	NELL2
Synonyms:	NRP2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC116281 sequence for NM_006159 edited (data generated by NextGen Sequencing)

ATGGAGTCTCGGGTCTTACTGAGAACATTCTGTTTGATCTTCGGTCTCGGAGCAGTTTGG
GGGCTTGGTGTGGACCCTTCCCTACAGATTGACGTCTTAACAGAGTTAGAACTTGGGGAG
TCCACGACCGGAGTGCGTCAGGTCCCGGGGCTGCATAATGGGACGAAAGCCTTTCTCTTT
CAAGATACTCCCAGAAGCATAAAAGCATCCACTGCTACAGCTGAACAGTTTTTTCAGAAG
CTGAGAAATAAACATGAATTTACTATTTTGGTGACCCTAAAACAGACCCACTTAAATTCA
GGAGTTATTCTCTCAATTCACCACTTGGATCACAGGTACCTGGAACTGGAAAGTAGTGGC
CATCGGAATGAAGTCAGACTGCATTACCGCTCAGGCAGTCACCGCCCTCACACAGAAGTG
TTTCCTTACATTTTGGCTGATGACAAGTGGCACAAGCTCTCCTTAGCCATCAGTGCTTCC
CATTTGATTTTACACATTGACTGCAATAAAATTTATGAAAGGGTAGTAGAAAAGCCCTCC
ACAGACTTGCCTCTAGGCACAACATTTTGGCTAGGACAGAGAAATAATGCGCATGGATAT
TTTAAGGGTATAATGCAAGATGTCCAATTACTTGTCATGCCCCAGGGATTTATTGCTCAG
TGCCCAGATCTTAATCGCACCTGTCCAACTTGCAATGACTTCCATGGACTTGTGCAGAAA
ATCATGGAGCTACAGGATATTTTAGCCAAAACATCAGCCAAGCTGTCTCGAGCTGAACAG
CGAATGAATAGATTGGATCAGTGCTATTGTGAAAGGACTTGCACCATGAAGGGAACCACC
TACCGAGAATTTGAGTCCTGGATAGACGGCTGTAAGAACTGCACATGCCTGAATGGAACC
ATCCAGTGTGAAACTCTAATCTGCCCAAATCCTGACTGCCCACTTAAGTCGGCTCTTGCG
TATGTGGATGGCAAATGCTGTAAGGAATGCAAATCGATATGCCAATTTCAAGGACGAACC
TACTTTGAAGGAGAAAGAAATACAGTCTATTCCTCTTCTGGAGTATGTGTTCTCTATGAG
TGCAAGGACCAGACCATGAAACTTGTTGAGAGTTCAGGCTGTCCAGCTTTGGATTGTCCA
GAGTCTCATCAGATAACCTTGTCTCACAGCTGTTGCAAAGTTTGTAAAGGTTATGACTTT
TGTTCTGAAAGGCATAACTGCATGGAGAATTCCATCTGCAGAAATCTGAATGACAGGGCT
GTTTGTAGCTGTCGAGATGGTTTTAGGGCTCTTCGAGAGGATAATGCCTACTGTGAAGAC
ATCGATGAGTGTGCTGAAGGGCGCCATTACTGTCGTGAAAATACAATGTGTGTCAACACC
CCGGGTTCTTTTATGTGCATCTGCAAAACTGGATACATCAGAATTGATGATTATTCATGT
ACAGAACATGATGAGTGTATCACAAATCAGCACAACTGTGATGAAAATGCTTTATGCTTC
AACACTGTTGGAGGACACAACTGTGTTTGCAAGCCGGGCTATACAGGGAATGGAACGACA
TGCAAAGCATTTTGCAAAGATGGCTGTAGGAATGGAGGAGCCTGTATTGCCGCTAATGTG
TGTGCCTGCCCACAAGGCTTCACTGGACCCAGCTGTGAAACGGACATTGATGAATGCTCT
GATGGTTTTGTTCAATGTGACAGTCGTGCTAATTGCATTAACCTGCCTGGATGGTACCAC
TGTGAGTGCAGAGATGGCTACCATGACAATGGGATGTTTTCACCAAGTGGAGAATCGTGT
GAAGATATTGATGAGTGTGGGACCGGGAGGCACAGCTGTGCCAATGATACCATTTGCTTC
AATTTGGATGGCGGATATGATTGTCGATGTCCTCATGGAAAGAATTGCACAGGGGACTGC
ATCCATGATGGAAAAGTTAAGCACAATGGTCAGATTTGGGTGTTGGAAAATGACAGGTGC
TCTGTGTGCTCATGTCAGAATGGATTCGTTATGTGTCGACGGATGGTCTGTGACTGTGAG
AATCCCACAGTTGATCTTTTTTGCTGCCCTGAATGTGACCCAAGGCTTAGTAGTCAGTGC
CTCCATCAAAATGGGGAAACTTTGTATAACAGTGGTGACACCTGGGTCCAGAATTGTCAA
CAGTGCCGCTGCTTGCAAGGGGAAGTTGATTGTTGGCCCCTGCCTTGCCCAGATGTGGAG
TGTGAATTCAGCATTCTCCCAGAGAATGAGTGCTGCCCGCGCTGTGTCACAGACCCTTGC
CAGGCTGACACCATCCGCAATGACATCACCAAGACTTGCCTGGACGAAATGAATGTGGTT
CGCTTCACCGGGTCCTCTTGGATCAAACATGGCACTGAGTGTACTCTCTGCCAGTGCAAG
AATGGCCACATCTGTTGCTCAGTGGATCCACAGTGCCTTCAGGAACTGTGA

Clone variation with respect to NM_006159.2

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006159 unedited
TGTAATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGGGGAAAACGGGGGGGTG
CGGGGCCGCCCCAGCCCGGGCTTTCTTGGGGCCGCCCCCCTTCTACCGGGTGTGCGAGTC
TTTGGCTGCTTTTATTCGGCTCGGGAGCTAATTCCCCGACGGAGCCGCGCCGGGGCGAGT
CCGACCCCTCCCTCCGGGCCCCCTCCGGGCCGCGCTGCCGCCTCGGCCCTGCGTGTGGGA
ATGATGTGCGCATTGGAGGGTCTAAGTTCTTCACGCGCCTGGGGAGGCCTCCCTTTTCTT
TCTTAGGCAACCAAAGCGTATTAATCCTACTGATCAGTAAATCCGAGGCAGCAGCAGGAG
AGACAAACGTTATTTTCCCGCTTGATTCCAAGAACCTCTTCGATTTTTATTTTTATTTTT
AAAGAGGGAGACGATGGACTGAGCTGATCCGCACCATGGAGTCTCGGGTCTTACTGAGAA
CATTCTGTTTGATCTTCGGTCTCGGAGCAGTTTGGGGGCTTGGTGTGGACCCTTCCCTAC
AGATTGACGTCTTAACAGAGTTAGAACTTGGGGAGTCCACGACCGGAGTGCGTCAGGTCC
CGGGGCTGCATAATGGGACGAAAGCCTTTCTCTTTCAAGATACTCCCAGAAGCATAAAAG
CATCCACTGCTACAGCTGAACAGTTNTTTCAGAAGCTGAGAAATAAACATGAATTTACTA
TTTTTGGTGACCCCTAAACAGACCCACTTAAATTCAGGGAGTATTCTCTCAATCACCACT
TGGATCACAGGTACCTGGGACTGGNAAAGTAGTGGCCATCGGAATGAAGTCAGACTGCAT
TACCGCTCAGGCAGTCACCGCCCTCACACAAAANGTTTTCCTACATTTTGGCTGAGGACA
GATGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006159 unedited
GCGGCCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTAGGTAAGAGAATATTTATT
TAATTTTGCACAAGAACGAGCTTATACTGAACAAATTCAACCAAATAATATTAAGTGCAG
TAAAACAAGGAAATAGGGATGACTTTTCCTGTTAGAAAATATTAAGTAACCATGCCTGTG
CATTATTTTTATCATTACAATAACTTGTTTCAGATTTCTTTTCAGAGTGTACTGTACATA
ACATGTTATAGCTTCTTTGCTTTACTTCTGAAAATATAATTCATTCACTGCCTGACATTT
TATTTCTTGCAGTGAGGAACCTAACTGATTCTTGAAGATTCTGATCTAGAGGAAAATTTT
CTGCACCAGTGAAGCTAGAGGCTTTCACAGATCCAATGGGCTCAGGCTTTCTATCCAGGG
TTCAGGATGTCACGGTATATACTGTACGCCCATTCTTCTACATGGTGATGTGAGACACAG
TAGAGGCAGACTTGAGGTCTAATTTTGCCCCAGTAATTTTCCTTTTGTGATTTTGTCAAG
CTCCACAAATTTCATAATTGAAAGTTCACTCAGCTATTAACAAAGCTGCATTTAGCTGCC
CACAAATCACCCAATTTAAGTTTTAACTTCTTTTTGGTCTTTTAATGAAAGAACATTCTT
TTAACAGAAATCTCCCATGAGACAGTTAACTTCACAGTTCCCTGAAGCACTGTGGATCCA
CTGAGCAACAGATGTGGCCATTCTTGCACTGGCAGAGAGTACACTCAGTGCCATGTTTTG
ATTCAAGATGACCCCGGTGAAGCGAACACATTTATTTCCTCAAGCCAGTCTTGGTGATGT
TATTGCGGATGGTGTCACCCTGCGAAGGGTCTGTGACCCACGGCGGCAACACTCATCTTT
GGAAGATGCTGAATCACCCTCCCNTTTGGGCAAGGCAGGGCCACAATAACTTTCCTTGG

Restriction Sites: NotI-NotI

ACCN: NM_006159

Insert Size: 3670 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).

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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_006159.1, NP_006150.1
RefSeq Size:	3198 bp
RefSeq ORF:	2451 bp
Locus ID:	4753
UniProt ID:	Q99435
Cytogenetics:	12q12
Domains:	VWC, LamG, EGF_CA, TSPN, EGF, EGF, VWC_out
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	The protein encoded by this gene is a glycoprotein containing several von Willebrand factor C domains and epidermal growth factor (EGF)-like domains. The encoded protein acts as a homotrimer and is found in the cytoplasm. Several variants encoding a few different isoforms exist, and at least one isoform appears to be a secreted protein. Studies in mouse suggest that this protein plays a role in neural cell growth and differentiation as well as in oncogenesis. [provided by RefSeq, Feb 2009] Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2 and 3 both encode isoform b.

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