

## Product datasheet for **RC204434**

### **NELL2 (NM\_006159) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NELL2 (NM_006159) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NELL2
Synonyms:	NRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC204434 representing NM\_006159  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGAGTCTCGGGTCTTACTGAGAACATTCTGTTTATCTCGGTCTCGGAGCAGTTGGGGCTTGGTG  
TGGACCCCTCCCTACAGATTGACGTCTTAACAGAGTTAGAACTTGGGGAGTCCACGACCGGAGTGGGTCA  
GGTCCCGGGCTGCATAATGGGACGAAAGCCTTTCTTTCAAGATACTCCAGAAAGCATAAAAGCATCC  
ACTGCTACAGCTGAACAGTTTTTTCAGAAGCTGAGAAAATAAACATGAATTTACTATTTTGGTGACCCATA  
AACAGACCCACTTAAATTCAGGAGTTATTCTCTCAATTCACCACTTGGATCACAGGTACCTGGAAGTGA  
AAGTAGTGGCCATCGAATGAAGTCAGACTGCATTACCGCTCAGGCAGTCACCGCCCTCACACAGAAGTG  
TTTCTTACATTTGGCTGATGACAAGTGGCACAAGCTCTCCTTAGCCATCAGTGCTTCCATTTGATTT  
TACACATTGACTGCAATAAAATTTATGAAAGGGTAGTAGAAAAGCCCTCCACAGACTTGCCTCTAGGCAC  
AACATTTTGGCTAGGACAGAGAAAATAATGCGCATGGATATTTAAGGGTATAATGCAAGATGTCCAATTA  
CTTGTCATGCCACAGGATTTATTGCTCAGTGCCAGATCTTAATCGCACCTGTCCAAGTGAATGACT  
TCCATGGACTTGTGCAGAAAATCATGGAGCTACAGGATATTTAGCCAAAACATCAGCCAAGCTGTCTCG  
AGCTGAACAGCGAATGAATAGATTGGATCAGTGCTATTGTGAAAGGACTTGCACCATGAAGGGAACCCACC  
TACCGAGAATTTGAGTCTGGATAGACGGCTGTAAAGACTGCACATGCCTGAATGGAACCATCCAGTGTG  
AAACTCTAATCTGCCAAATCCTGACTGCCACTTAAAGTCGGCTCTTGCATGTGGATGGCAAATGCTG  
TAAGGAATGCAATCGATATGCCAATTTCAAGGACGAACCTACTTTGAAGGAGAAAAGAAATACAGTCTAT  
TCCTCTTCTGGAGTATGTGTTCTCTATGAGTGAAGGACCAAGCATGAACTTGTGAGAGTTTGTAAAGG  
GTCCAGCTTTGGATTGTCCAGAGTCTCATCAGATAACCTTGTCTCACAGCTGTTGCAAGTTTGTAAAGG  
TTATGACTTTTGTCTGAAAGGCATAACTGCATGGAGAATTCATCTGCAGAAAATCTGAATGACAGGGCT  
GTTTGTAGCTGTGAGATGGTTTTAGGGCTCTTCGAGAGGATAATGCCTACTGTGAAGACATCGATGAGT  
GTGCTGAAGGGCGCCATTACTGTCGTGAAAATACAATGTGTGTCAACACCCCGGGTCTTTTATGTGCAT  
CTGCAAACTGGATACATCAGAATTGATGATTATTCATGTACAGAACATGATGAGTGTATCACAATCAG  
CACAACGTGATGAAAATGCTTTATGCTTCAACACTGTTGGAGGACAACTGTGTTTGAAGCCGGGCT  
ATACAGGGAATGGAACGACATGCAAAGCATTGCAAAGATGGCTGTAGGAATGGAGGAGCCTGTATTGC  
CGCTAATGTGTGCCTGCCACAAGGCTTCACTGGACCCAGCTGTGAAACGGACATTGATGAATGCTCT  
GATGGTTTTGTTCAATGTGACAGTCGTGCTAATTGCATTAACCTGCCTGGATGGTACCCTGTGAGTGCA  
GAGATGGCTACCATGACAATGGGATGTTTTACCAAGTGGAGAATCGTGTGAAGATATTGATGAGTGTGG  
GACCGGGAGGCACAGCTGTGCCAATGATACCATTTGCTTCAATTTGGATGGCGGATATGATTGTCGATGT  
CCTCATGGAAAAGAAATGCACAGGGGACTGCATCCATGATGGAAAAGTTAAGCACAATGGTCAGATTTGGG  
TGTTGGAAAATGACAGGTGCTCTGTGTGCTCATGTGAGAAATGGATTGCTTATGTGTGACGGATGGTCTG  
TGACTGTGAGAATCCACAGTTGATCTTTTTGCTGCCCTGAATGTGACCCAAGGCTTAGTAGTCAGTGC  
CTCCATCAAAATGGGGAACTTTGTATAACAGTGGTGACACCTGGGTCCAGAATTGTCAACAGTGCCGCT  
GCTTGAAGGGGAAGTTGATTGTTGGCCCTGCCTTGCACAGATGTGGAGTGTGAATTCAGCATTCTCCC  
AGAGAATGAGTGTGCCCAGCTGTGTACAGACCCCTTGCAGGCTGACACCATCCGCAATGCATCACC  
AAGACTTGCCTGGACGAAATGAATGTGGTTCGCTTACCGGGTCTCTTGGATCAAACATGGCAGTGTG  
GACTCTCTGCCAGTGAAGAATGGCCACATCTGTTGCTCAGTGGATCCACAGTGCCTTCAGGAAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC204434 representing NM\_006159  
Red=Cloning site Green=Tags(s)

MESRVLLRTFCLIFGLGAVWGLGVDPQLIDVLTELELGESTTGVRQVPLHNGTKAFLFQDTPRSIKAS  
TATAEQFFQKLRNKHEFTILVTLKQTHLNSGVILSIHHLDRHYLELESSGHRNEVRLHYRSGSHRPHTEV  
FPYILADDKWHKLSLAISASHLILHIDCNKIYERVVEKPSTDLPLGTTFWLGQRNNAHGYPKIMQDVQL  
LVMPQGFIAQCPDLNRTCPTCNDFHGLVQKIMELQDILAKTSAKLSRAEQRMNRLDQCYCERTCTMKGTT  
YREFESWIDGCKNCTCLNGTIQCETLPCPNDCPLKSALAYVDGKCKECKSICQFQGRTYFEGERTVY  
SSSGVCVLYECKDQTMKLVESGCPALDCPESHQITLHSCCKVCKGYDFCSERHNCMENSICRNLNDRA  
VCSCRDGFALREDNAYCEDIDECAEGRHYCRENTMCVNTPGSFMCIKGTGYIRIDDYSCTEHDECITNQ  
HNCDENALCFNTVGGHNCVCKPGYTGNGTTCFAFKDGCRRNGGACIAANVCACPPQFTGSPCETDIDEC  
DGFVQCDSTRANCINLPGWYHCECRDGYHDNGMFSPPSGESCEDIDECGTGRHSCANDTICFNLGGYDCRC  
PHGKNCTGDCIHDGKVKHNGQIWWLENDRCVSCQNGFVMCRMVDCENPTVDLFCPECDPRLSSQC  
LHQNGETLYNSGDTWVQNCQQCRCLQGEVDCWPLPCPDVECEFSILPENECPCRCVTDPQADTIRNDIT  
KTCLDEMNVVRF TGSSWIKHGTECTLQCKNGHICCSVDPQCLQEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8079\\_d06.zip](https://cdn.origene.com/chromatograms/mk8079_d06.zip)

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_006159

ORF Size: 2448 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\\_006159.2](#)

**RefSeq Size:** 3198 bp

**RefSeq ORF:** 2451 bp

**Locus ID:** 4753

**UniProt ID:** [Q99435](#)

**Cytogenetics:** 12q12

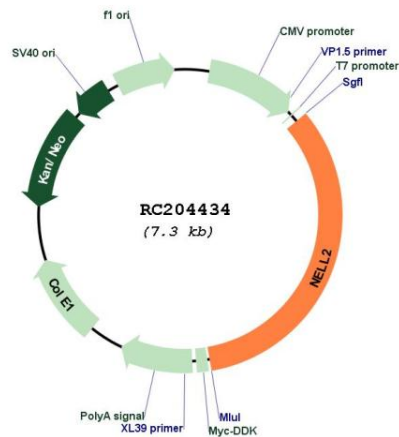
**Domains:** VWC, LamG, EGF\_CA, TSPN, EGF, EGF, VWC\_out

**Protein Families:** Secreted Protein, Transmembrane

**MW:** 91.35 kDa

**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]

### Product images:



Circular map for RC204434