

## Product datasheet for **RG204434**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NELL2 (NM_006159) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NELL2
Synonyms:	NRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG204434 representing NM\_006159  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGTCTCGGGTCTTACTGAGAACATTCTGTTTATCTCGGTCTCGGAGCAGTTGGGGCTTGGTG  
 TGGACCCCTCCCTACAGATTGACGTCTTAACAGAGTTAGAACTTGGGGAGTCCACGACCGGAGTGGGCA  
 GGTCCCGGGCTGCATAATGGGACGAAAGCCTTCTCTTTCAAGATACTCCAGAAAGCATAAAAGCATCC  
 ACTGCTACAGCTGAACAGTTTTTTCAGAAGCTGAGAAAATAAACATGAATTTACTATTTTGGTGACCCATA  
 AACAGACCCACTTAAATTCAGGAGTTATTCTCTCAATTCACCACTTGGATCACAGGTACCTGGAAGTGA  
 AAGTAGTGGCCATCGAATGAAGTCAGACTGCATTACCGCTCAGGCAGTCACCGCCCTCACACAGAAGTG  
 TTTCTTACATTTGGCTGATGACAAGTGGCACAAGCTCTCCTTAGCCATCAGTGCTTCCATTTGATTT  
 TACACATTGACTGCAATAAAATTTATGAAAGGGTAGTAGAAAAGCCCTCCACAGACTTGCCTCTAGGCAC  
 AACATTTTGGCTAGGACAGAGAAAATAATGCGCATGGATATTTAAGGGTATAATGCAAGATGTCCAATTA  
 CTTGTCATGCCACAGGATTTATTGCTCAGTGCCAGATCTTAATCGCACCTGTCCAAGTGAATGACT  
 TCCATGGACTTGTGCAGAAAATCATGGAGCTACAGGATATTTAGCCAAAACATCAGCCAAGCTGTCTCG  
 AGCTGAACAGCGAATGAATAGATTGGATCAGTGCTATTGTGAAAGGACTTGCACCATGAAGGGAACCCACC  
 TACCGAGAATTTGAGTCTGGATAGACGGCTGTAAAGACTGCACATGCCTGAATGGAACCATCCAGTGTG  
 AAATCTAATCTGCCAAATCCTGACTGCCACTTAAAGTCGGCTCTTGCATGTGGATGGCAAATGCTG  
 TAAGGAATGCAAATCGATATGCCAATTTCAAGGACGAACCTACTTTGAAGGAGAAAAGAAATACAGTCTAT  
 TCCTCTTCTGGAGTATGTGTTCTATGAGTGAAGGACCAAGCATGAACTTGTGAGAGTTCAGGCT  
 GTCCAGCTTTGGATTGTCCAGAGTCTCATCAGATAACCTTGTCTCACAGCTGTTGCAAAGTTTGAAGG  
 TTATGACTTTTGTCTGAAAGGCATAACTGCATGGAGAATTCATCTGCAGAAAATCTGAATGACAGGGCT  
 GTTTGTAGCTGTGAGATGGTTTTAGGGCTCTTCGAGAGGATAATGCCTACTGTGAAGACATCGATGAGT  
 GTGCTGAAGGGCGCCATTACTGTCGTGAAAATACAATGTGTGCAACACCCCGGGTCTTTTATGTGCAT  
 CTGCAAACTGGATACATCAGAATTGATGATTATTCATGTACAGAACATGATGAGTGTATCACAATCAG  
 CACAACCTGTGATGAAAATGCTTTATGCTTCAACACTGTTGGAGGACACAACCTGTGTTGCAAGCCGGCT  
 ATACAGGGAATGGAACGACATGCAAAGCATTGCAAAGATGGCTGTAGGAATGGAGGAGCCTGTATTGC  
 CGCTAATGTGTGCCTGCCACAAGGCTTCACTGGACCCAGCTGTGAAACGGACATTGATGAATGCTCT  
 GATGGTTTTGTTCAATGTGACAGTCGTGCTAATTGCATTAACCTGCCTGGATGGTACCCTGTGAGTGCA  
 GAGATGGCTACCATGACAATGGGATGTTTTACCAAGTGGAGAATCGTGTGAAGATATTGATGAGTGTGG  
 GACCGGGAGGCACAGCTGTGCCAATGATACCATTTGCTTCAATTTGGATGGCGGATATGATTGTCGATGT  
 CCTCATGGAAAAGAAATGCACAGGGGACTGCATCCATGATGGAAAAGTTAAGCACAATGGTCAGATTTGGG  
 TGTTGGAAAATGACAGGTGCTCTGTGTGCTCATGTGAGAAATGGATTGCTTATGTGTGACGGATGGTCTG  
 TGACTGTGAGAATCCACAGTTGATCTTTTTGCTGCCCTGAATGTGACCCAAGGCTTAGTAGTCAGTGC  
 CTCCATCAAAATGGGGAACTTTGTATAACAGTGGTGACACCTGGGTCCAGAATTGTCAACAGTGCCGCT  
 GCTTGAAGGGGAAGTTGATTGTTGGCCCTGCCTTGCACAGATGTGGAGTGTGAATTCAGCATTCTCCC  
 AGAGAATGAGTGTGCCCGCTGTGTACAGACCCCTTGCAGGCTGACACCATCCGCAATGCATCACC  
 AAGACTTGCCTGGACGAAATGAATGTGGTTCGCTTACCGGGTCTCTTGGATCAAACATGGCACTGAGT  
 GACTCTCTGCCAGTGAAGAATGGCCACATCTGTTGCTCAGTGGATCCACAGTGCCCTTCAGGAAGT

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG204434 representing NM\_006159  
 Red=Cloning site Green=Tags(s)

MESRVLLRTFCLIFGLGAVWGLGVDPQLQIDVLELELGESTTGVRQVPGLHNGTKAFLFQDTPRSIKAS  
 TATAEQFFQKLRNKHEFTILVTLKQTHLNSGVILSIHHLDHRYLELESSGHRNEVRLHYRSGSHRPHTTEV  
 FPYILADDKWHKLSLAISASHLILHIDCNKIYERVVEKPSTDLPLGTTFWLGQRNNAHG YFKGIMQDVQL  
 LVMPQGFIAQCPDLNRTCPTCNDFHGLVQKIMELQDILAKTSAKLSRAEQRMNRLDQCYCERTCTMKGTT  
 YREFESWIDGCKNCTCLNGTIQCETLPCPNDCPLKSALAYVDGKCKECKSICQFQGRTYFEGERTVY  
 SSSGVCVLYECKDQTMKLVESGCPALDCPEHQITLHSCCKVCKGYDFC SERHNCMENSICRNLNDRA  
 VCSCRDGFALREDNAYCEDIDECAEGRHYCRENTMCVNTPGSFMCICTGYIRIDDYSCTEHDECITNQ  
 HNCDENALCFNTVGGHNCVCKPGYTGN GTTCKAFCKDGCRRNGGACIAANVCACPPQFTGSPCETDIDEC  
 DGFVQCD SRANCINLPGWYHCECRDGYHDNGMFS P SGESCEDIDECGTGRHSCANDTICFNL DGGYDCRC  
 PHGKNCTGDCIHDGKVKHNGQI WVLENDRCVSCQNGFVMCRRMVDCENPTVDLFCPECDPRLSSQC  
 LHQNGETLYNSGDTWVQNCQQCRCLQGEVDCWPLPCPDVECEFSILPENECPCRCVTDPQADTIRNDIT  
 KTCLDEMNVVRF TGSSWIKHGTECTLQCKNGHICCSVDPQCLQEL

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



**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](#)

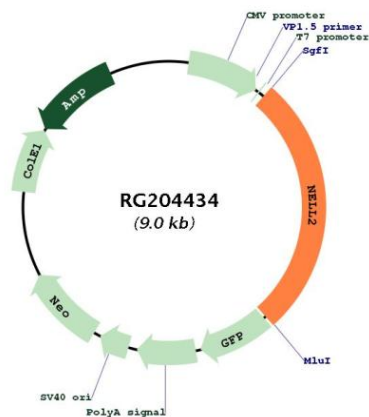
**Cytogenetics:** 12q12

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

**Protein Families:** Secreted Protein, Transmembrane

**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 RG204434