

## Product datasheet for **RG210244**

### **NELL1 (NM\_006157) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NELL1 (NM_006157) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NELL1
Synonyms:	IDH3GL; NRP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG210244 representing NM\_006157  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGCCGATGGATTGATTTTAGTTGTGTGTTCTGTGTGTGCACTGCCAGGACAGTGGTGGCTTTGGGA  
TGGACCTTGACCTTCAGATGGATATCGTCACCGAGCTTGACCTTGTGAACACCACCTTGGAGTTGCTCA  
GGTGTCTGGAATGCACAATGCCAGCAAAGCATTATTTATTTCAAGACATAGAAAGAGAGATCCATGCAGCT  
CCTCATGTGAGTGAGAAATTAATTCAGCTGTTCCGGAACAAGAGTGAATTCACCATTTTGGCCACTGTAC  
AGCAGAAGCCATCCACTTCAGGAGTGATACTGTCCATTGAGAACTGGAGCACAGCTATTTTGAAGTGGGA  
GAGCAGTGGCCTGAGGGATGAGATTCCGGTATCACTACATACACAATGGGAAGCCAAGGACAGAGGCCACTT  
CCTTACCGCATGGCAGATGGACAATGGCACAAGGTTGCACTGTCAAGTGTAGCGCTCTCATCTCTGCTCC  
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TTTATGCCGAATGGATATATAACACAGTGTCCAAATCTAAATCACACTTGCCCAACTGCAGTGATTCTCT  
TAAGCCTGGTGCAGGAATAATGGATTTACAAGAGCTTTTGGCCAAGATGACTGCAAAAATAAATATATGC  
AGAGACAAGACTTAGTCAATTGGAAAAGTGCATTGTGAGAAGACTTGTCAAGTGAAGTGGACTGCTCTAT  
CGAGATCAAGACTCTTGGGTAGATGGTGACCATTGCAGGAAGTGCCTTGCAAAAGTGGTGGCCGGAAT  
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CAGAAAAGGATCACATTCTTCTGAGAATCAGTGTGCTGCTGTAGAGGTCAAACTTTTGTGCAGA  
AGGACCTAAATGTGGTGAAAATCAGAGTGCAAAAAGTGAATACAAAAGCTACTTGTGAGTGAAGAGT  
GGTTACATCTCTGTCCAGGGAGACTCTGCCTACTGTGAAGATATTGATGAGTGTGCAAGTAAAGTGCATT  
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GCCATCTGCACCAACACTGTCCAGGGACACAGCTGCACCTGCAAACCGGGCTACGTGGGGAACGGGACCA  
TCTGCAGAGCTTCTGTGAAGAGGGCTGCAGATACGGTGAACGTGTGTGGCTCCCAACAAATGTGTCTG  
TCCATCTGGATTCACAGGAAGCCACTGCGAGAAAGATATTGATGAATGTTAGAGGGAATCATTGAGTGC  
CACAACCTTCCCGCTGCGTTAACCTGCCAGGGTGGTACCCTGTGAGTGCAGAAGCGGTTCCATGACG  
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ATTGCTGGCCACTCACTTGGCCAACTTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG  
CCGCTGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG  
TATGGTGTTCACGGCTTGTGGCTCAGTGTGGACGATGGCTGGATCTCCCTGCACAACCTGTAATGCA  
AGAATGGAAGAGTCTGTTGTTCTGTGGATTTTGTGAGTGTCTTCAAATAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

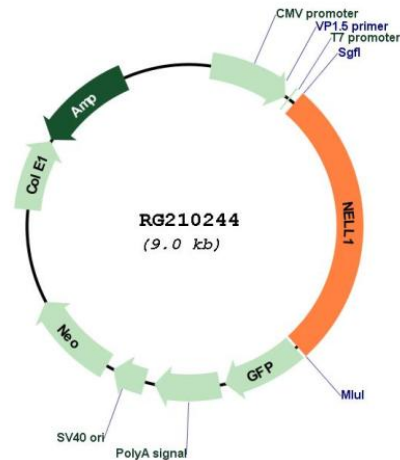
**Protein Sequence:** >RG210244 representing NM\_006157  
 Red=Cloning site Green=Tags(s)

MPMDLILVVWFCVCTARTVVVFGMDPDLQMDIVTELDLVNTTLGVAQVSGMHNASKAFLFQDIEREIHAA  
 PHVSEKLIQLFRNKSEFTILATVQQKPSTSGVILSIRELEHSYFELESSGLRDEIRYHYIHNGKPRTEAL  
 PYRMADGQWHKVALSVSASHLLLVDCNRIYERVIDPPDTNLPNGINLWLGQRNQKHGLFKGIIQDGKII  
 FMPNGYITQCPNLNHTCPTCSDFLSLVQGIMDLQELLAKMTAKLNYAETRLSQLENCHCEKTCQVSGLLY  
 RDQDSWVDGDHCRNCTCKSGAVECRRMSCPPLNCSPLPVHIAQCCCKVCRPKCIYGGKVLAEGRILT  
 KSCRECRGGVLVKITEMCPPLNCSEKDHLIPENQCCRVCRGHNFAEGPKCGENSECKNWNTKATCECKS  
 GYISVQGD SAYCEDIDECAAKMHYCHANTVCVNL PGLYRCDVPGYIRVDDF SCTEHDECGSQHNC DEN  
 AICTNTVQGH SCTCKPGYVNGTICRAFCEEGCRYGGTCVAPNKCVCPSGFTGSHCEKDIDECSEGIIEC  
 HNHSRCVNLPGWYHCECRSGFHDDGTYSLSGESCIDIDECALRTHTCWNDSACINLAGGFDC LCPSPGSC  
 SGDCPHEGGLKHNGQVWTLKEDRCSVCCKDGKIFCRRTACDCQNP SADLFCCECDTRVTSQCLDQNGH  
 KLYRSGDNWTHSCQQCRCLEGEVDCWPLTCPNL SCEYTAILEGECPCRCVSDPCLADNITYDIRKTCLDS  
 YGVSRLSGSVWTMAGSPCTTCKCKNGRVCCSVDFECLQNN

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Plasmid Map:**


**ACCN:** NM\_006157

**ORF Size:** 2430 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\\_006157.5](#)

**RefSeq Size:** 3255 bp

**RefSeq ORF:** 2433 bp

**Locus ID:** 4745

**UniProt ID:** [Q92832](#)

**Cytogenetics:** 11p15.1

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

**Protein Families:** Secreted Protein

**Gene Summary:** This gene encodes a cytoplasmic protein that contains epidermal growth factor (EGF)-like repeats. The encoded heterotrimeric protein may be involved in cell growth regulation and differentiation. A similar protein in rodents is involved in craniosynostosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]