

## Product datasheet for **RC239484**

### **NELL1 (NM\_001288714) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NELL1 (NM_001288714) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NELL1
Synonyms:	IDH3GL; NRP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC239484 representing NM\_001288714  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCCGATGGATTGATTTAGTTGTGTGTTCTGTGTGTCAGTCCAGGACAGTGGTGGCTTTGGGA  
TGGACCTTGACCTTCAGATGGATATCGTCACCGAGCTTGACCTTGTGAACACCACCTTGGAGTTGCTCA  
GGTGTCTGGAATGCACAATGCCAGCAAAGCATTATTTCAAGACATAGAAAGAGAGATCCATGCAGCT  
CCTCATGTGAGTGAGAAATTAATTCAGCTGTTCCGGAACAAGAGTGAATTCACCATTTTGGCCACTGTAC  
AGCAGAAGCCATCCACTTCAGGAGTGATACTGTCCATTGAGAAGTGGAGCACAGGATTTATGAGCGTGT  
GATAGACCCTCCAGATACCAACCTTCCCCAGGAATCAATTTATGGCTTGGCCAGCGCAACCAAAAGCAT  
GGCTTATTCAAAGGGATCATCAAGATGGGAAGATCATCTTTATGCCGAATGGATATATAACACAGTGTC  
CAAATCTAAATCACACTTGCCCAACCTGCAGTGATTTCTTAAGCCTGGTGAAGGAATAATGGATTTACA  
AGAGCTTTTGGCCAAGATGACTGCAAACTAAATTTATGCAGAGACAAGACTTAGTCAATGGAAAAGTGT  
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ATTGCAGGAAGTGCATTGCAAAAGTGGTGCCTGGAATGCCGAAGGATGTCCTGTCCCCCTCTCAATTG  
CTCCCCAGACTCCCTCCAGTGCACATTGCTGGCCAGTGTGTAAGGTCTGCCGACCAAAATGTATCTAT  
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AAAACTGGAATACAAAAGCTACTTGTGAGTGCAGCTAAGATGCATTACTGTATGCCAATACTGTGTGTCAACCT  
TCCTGGGTATATCGCTGTGACTGTGCCAGGATACATTCGTGTGGATGACTTCTTGTACAGAACAC  
GATGAATGTGGCAGCGGCCAGCACAAGTGTGATGAGAATGCCATCTGCACCAACTGTCCAGGGACACA  
GCTGCACCTGCAAACCGGCTACGTGGGAACGGGACCATCTGCAGAGCTTTCTGTGAAGAGGGCTGCAG  
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GGTGGTACCCTGTGAGTGCAGAAGCGGTTTCCATGACGATGGGACCTATTCAGTGTCCGGGGAGTCTGT  
TATTGACATTGATGAATGTCCCTAAGAAGTCAACCTGTTGGAACGATTCTGCCTGCATCAACCTGGCA  
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ATTCTGCCGACGACAGCTTGTGATTGCCAGAATCCAAGTGTGACCTATTCTGTGCCCAGAATGTGAC  
ACCAGAGTCACAAGTCAATGTTTAGACCAAAATGGTCACAAGCTGTATCGAAGTGGAGACAATTGGACCC  
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AACATCACCTATGACATCAGAAAACTTGCCCTGGACAGCTATGGTGTTCACGGCTTAGTGGCTCAGTGT  
GGACGATGGCTGGATCTCCCTGCACAACCTGTAATGCAAGAATGGAAGAGTCTGTTGTTCTGTGGATT  
TGAGTGTCTTCAAATAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239484 representing NM\_001288714  
 Red=Cloning site Green=Tags(s)

MPMDLILVVWFCVCTARTVVVGFMDPDLQMDIVTELDLVNTTLGVAQVSGMHNASKAFLFQDIEREIHAA  
 PHVSEKLIQLFRNKSEFTILATVQQKPSTSGVILSIRELEHRIYERVIDPPDNLPPGINLWLGQRNQKH  
 GLFKGIIQDGKIIIFMPNGYITQCPNLNHTCPTCSDFLSLVQGIMDLQELLAKMTAKLNYAETRLSQLENC  
 HCEKTCQVSGLLYRDQDSWVDGDHCRNCTCKSGAVECRRMSCPPLNCSPDSLPHVHIAGQCCKVCRPKCIY  
 GGKVLAEQORILTKSCRECRGGVLVKITEMCPPLNCSEKDHLPENQCCRVCGRHNFCAEGPKCGENSEC  
 KNWNTKATCECKSGYISVQGDSAYCEDIDECAAKMHYCHANTVCVNLPLGLYRCDVPGYIRVDDFSCTEH  
 DECGSQGHNCDENAICTNTVQGHSCCTKPGYVNGTICRAFCEEGCRYGGTCVAPNKCVCPSGFTGSHCE  
 KDIDECSEGIIECHNHSRCVNLPGWYHCECRSGFHDDGTYSLSGESCIDIDEALRTHTCWNSACINLA  
 GGFDCPCSPGSCSGDCPHEGGLKHNGQVWTLKEDRCSVCCKDGKIFCRRTACDCQNPSADLFCCEPCD  
 TRVTSQCLDQNGHKL YRSGDNWTHSCQQCRCLEGEVDCWPLTCPNL SCEYTAILEGCCPRCVSDPCLAD  
 NITYDIRKTCLDSYGVSRLSGSVWTMAGSPCTTCKCKNGRVCCSVDFECLQNN

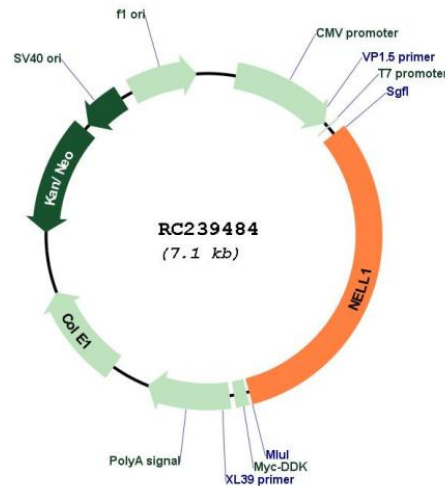
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001288714

**ORF Size:** 2259 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\\_001288714.1](#), [NP\\_001275643.1](#)

**RefSeq Size:** 3099 bp

**RefSeq ORF:** 2262 bp

**Locus ID:** 4745

UniProt ID: [Q92832](#)

Cytogenetics: 11p15.1

Protein Families: Secreted Protein

MW: 83.5 kDa

**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]