

Product datasheet for **RG227172**

NELL1 (NM_201551) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NELL1 (NM_201551) 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:

>RG227172 representing NM_201551
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGATGGATTGATTTTAGTTGTGTGTTCTGTGTGTGCACTGCCAGGACAGTGGTGGCTTTGGGA
 TGGACCTTGACCTTCAGATGGATATCGTCACCGAGCTTGACCTTGTGAACACCACCTTGGAGTTGCTCA
 GGTGTCTGGAATGCACAATGCCAGCAAAGCATTATTTATTTCAAGACATAGAAAAGAGAGATCCATGCAGCT
 CCTCATGTGAGTGAGAAATTAATTCAGCTGTTCCGGAACAAGAGTGAATTCACCATTTTGGCCACTGTAC
 AGCAGAAGCCATCCACTTCAGGAGTGATACTGTCCATTGAGAACTGGAGCACAGCTATTTGAACTGGA
 GAGCAGTGGCCTGAGGGATGAGATTGGTATCACTACATACACAATGGGAAGCCAAGGACAGAGGCACTT
 CCTTACCGCATGGCAGATGGACAATGGCACAAGGTTGCACTGTGAGTTAGCGCCTCTCATCTCTGCTCC
 ATGTCGACTGTAAACAGGATTTATGAGCGTGTGATAGACCCTCCAGATACCAACCTTCCCCAGGAATCAA
 TTTATGGCTTGGCCAGCGCAACCAAAGCATGGCTTATTCAAAGGGATCATCCAAGATGGGAAGATCATC
 TTTATGCCGAATGGATATATAACACAGTGTCCAAATCTAAATCACAACCTTGCCCAACCTGCAGTGATTCT
 TAAGCCTGGTGCAGGAATAATGGATTTACAAGAGCTTTTGGCCAAGATGACTGCAAAAATAAATATGCA
 AGAGACAAGACTTAGTCAATTGGAAAAGTGCATTGTGAGAAGACTTGTCAAGTGAAGTGGACTGCTCTAT
 CGAGATCAAGACTCTTGGGTAGATGGTGACCATTCAGGAACTGCACTTGCAAAAAGTGGTGGCCGGAAT
 GCCGAAGGATGTCCTGTCCCCCTCTCAATTGCTCCCCAGACTCCCTCCAGTGCACATTGCTGGCCAGTG
 CTGTAAGTCTGCCGACCAAAAATGATCTATGGAGGAAAAGTCTTGCAGAAGGCCAGCGGATTTAACC
 AAGAGCTGTGGGAATGCCGAGGTGGAGTTTGTAGTAAAAATTACAGAAAATGTGTCCTCTTTGAACTGT
 CAGAAAAGGATCACATTTCTCTGAGAATCAGTGTGCTGCGTGTCTGTAGAGGTCAATAACTTTTGTGCAGA
 AGGACCTAAATGTGGTGA AAACTCAGAGTGC AAAAAGTGAATACAAAAGCTACTTGTGAGTGAAGAGT
 GGTACATCTCTGTCCAGGGAGACTCTGCCTACTGTGAAGATATTGATGAGTGTGCAAGTAAAGTGCATT
 ACTGTCATGCCAATACTGTGTGTCAACCTTCTGGGTATATCGCTGTGACTGTGCCAGGATACAT
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 GCCATCTGCACCAACACTGTCCAGGGACACAGCTGCACCTGCAAACCGGGCTACGTGGGGAACGGGACCA
 TCTGCAGAGCTTTCTGTGAAGAGGGCTGCAGATACGGTGAACGTGTGTGGCTCCCAACAAATGTGTCTG
 TCCATCTGGATTCACAGGAAGCCACTGCGAGAAAAGACATTGATGAATGTGCCTTAAGAAGTACACCTGT
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 CTGGTGTGCTCATGAAGGGGGGCTGAAGCACAATGGCCAGGTGTGGACCTTGAAAGAAGACAGGTG
 TTCTGTCTGCTCCTGCAAGGATGGCAAGATATTCTGCCGACGGACAGCTTGTGATTGCCAGAATCCAAGT
 GCTGACCTATTCTGTTGCCCAGAATGTGACACCAGAGTCAAAAGTCAATGTTTAGACCAAAATGGTCACA
 AGCTGTATCGAAGTGGAGACAAATGGACCCATAGCTGTGACAGTGTGCGTGTCTGGAAGGAGAGGTAGA
 TTGCTGGCCACTCACTTGCCCAACTTGAGCTGTGAGTATACAGCTATCTTAGAAGGGGAATGTTGTCCC
 CGCTGTGTCAGTGACCCCTGCCTAGCTGATAACATCACCTATGACATCAGAAAAACTTGCCTGGACAGCT
 ATGGTGTTCACGGCTTAGTGGCTCAGTGTGGACGATGGCTGGATCTCCCTGCACAACCTGTAATGCAA
 GAATGGAAGAGTCTGTTGTTCTGTGGATTTTGTGAGTGTCTTCAAAAATAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227172 representing NM_201551
 Red=Cloning site Green=Tags(s)

MPMDLILVVWFCVCTARTVVVFGMDPDLQMDIVTELDLVNTTLGVAQVSGMHNASKAFLFQDIEREIHAA
 PHVSEKLIQLFRNKSEFTILATVQQKPSTSGVILSIRELEHSYFELESSGLRDEIRYHYIHNGKPRTEAL
 PYRMADGQWHKVALSVSASHLLLVHDCNRIYERVIDPPDTNLPGINLWLGQRNQKHGLFKGIIQDGKII
 FMPNGYITQCPNLNHTCPTCSDFLSLVQGIMDLQELLAKMTAKLNYAETRLSQLENCHCEKTCQVSGLLY
 RDQDSWVDGDHCRNCTCKSGAVECRRMSCPPLNCSPLPVHIAQQCCKVCRPKCIYGGKVLAEGRILT
 KSCRECRGGVLVKITEMCPPLNCSEKDHLIPENQCCRVCGRHNFCAEGPKCGENSECKNWNWTKATCECKS
 GYISVQGSAYCEDIDECAAKMHYCHANTVCVNLPLGLYRCDVPGYIRVDDFSCTEHDECGSQHNCDEN
 AICTNTVQGHSCCKPGYVNGTICRAFCEEGCRYGGTCVAPNKCVCPSGFTGSHCEKDIDECALRHTTC
 WNDACINLAGGFDCPCSPGSCSGDCPHEGLKHNGQVWTLKEDRCSVCCKDKGIFCRRTACDCQNPS
 ADLFCCECDTRVTSQCLDQNGHKL YRSGDNWTHSCQQCRLEGEVDCWPLTCPNLSCYEYTAILEGECPC
 RCVSDPCLADNITYDIRKTCLDSYGVSRLSGSVWMTMAGSPCTTCKCKNGRVCCSVDFECLQNN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201551

ORF Size: 2289 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_201551.2](#), [NP_963845.1](#)

RefSeq Size: 3114 bp

RefSeq ORF: 2292 bp

Locus ID: 4745

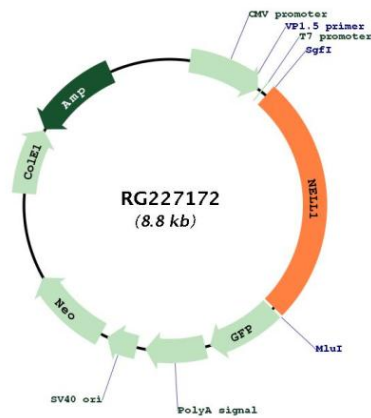
UniProt ID: [Q92832](#)

Cytogenetics: 11p15.1

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]

Product images:



Circular map for RG227172