

Product datasheet for **RR206967**

Nell1 (NM_031069) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nell1 (NM_031069) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nell1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR206967 representing NM_031069
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCCGATGGATGTGATTTTAGTTTTGTGGTTCTGTGTATGCACCGCCAGGACAGTGTGGCTTTGGGA
TGGACCTTGACCTTCAGCTGGACATCATCTCAGAGCTCGACCTGGTGAACACCACCTGGGAGTCACGCA
GGTGGCTGGACTGCACAACGCCAGTAAAGCATTCTATTTCAAGATGTACAGAGAGAGATCCATTCGGCC
CCTCACGTGAGTGAGAAGCTGATCCAGCTATTCGGAATAAGAGCGAGTTCACCTTTTTGGCTACAGTGC
AGCAGAAACCATCCACCTCAGGGGTGATACTGTCCATCCGGGAGCTGGAGCACAGCTATTTGAACTGGA
GAGCAGTGGCCAAAGAGAAGAGATACGCTACCATTACATACATGGTGGAAAGCCAGGACTGAGGCCCTT
CCCTACCGCATGGCAGACGGACAATGGCACAAGGTCGCGTGTGAGTGAGCGCTCTCACCTCTGCTCC
ACATCGACTGCAATAGGATTTACGAGCGTGTGATAGACCCTCCGGAGACCAACCTTCTCCAGGAAGCAA
TCTGTGGCTTGGCAACGTAACCAAAGCATGGCTTTTTCAAAGGAATCATCCAAGATGGTAAGATCATC
TTCATGCCGAATGGTTTCATCACACAGTGTCCCAACCTCAATCGACTTGCCCAACATGCAGTGACTTCC
TGAGCCTGGTTCAAGGAATAATGGATTTGCAAGAGCTTTTGCCCAAGATGACTGCAAAACTGAATTATGC
AGAGACGAGACTTGGTCAACTGGAAAATTGCCACTGTGAGAAGACCTGCCAAGTGAAGTGGCTGCTCTAC
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GCCGCAGGATGTCTGTCCCGGCTCAACTGTTCCCGGACTCACTTCTGTGCACATTTCCGGCCAGTG
TTGTAAGTTTGACAGACCAAAAATGTATCTATGGAGGAAAAGTTCTTGCTGAGGGCCAGCGGATTTAACC
AAGACCTGCCGGGAATGTCGAGGTGGAGTCTTGGTAAAAATCACAGAAGCTTGCCTCCTTTGAACTGCT
CAGCAAAAGGATCATATTTCCAGAGAATCAGTGTGCAGGGTCTGCCAGGTCATAACTTCTGTGCAGA
AGCACCTAAGTGGGAGAAAACCTCGAATGCAAAAATTGGAATACAAAAGCAACCTGTGAGTGCAAGAAT
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ATTGTCATGCCAACACCGTGTGTGTCAACTTGCCGGGGTTGTATCGCTGTGACTGCGTCCAGGGTACAT
CCGTGTGGATGACTTCTTGTACGGAGCATGATGATTGTGGCAGCGGACAACACAACCTGCGACAAAAAT
GCCATCTGTACCAACACAGTCCAGGGACACAGCTGCACCTGCCAGCCGGTTACGTGGGAAATGGCACCA
TCTGCAAAGCATTCTGTGAAGAGGGTGCAGATACGGAGGTACCTGTGTGGCTCCTAACAAAGTGTGTCTG
TCCTTCTGGATTACGGGAAGCCACTGTGAGAAAGATATTGATGAATGCGCAGAGGGATTCTGTTGAATGC
CACAACACTCCCGCTGTGTTAACCTGCCAGGGTGGTACCCTGTGAGTGCAGAAGCGGTTCCATGACG
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TTGAAATGACTCTGCCTGCATCAACTTAGCAGGAGGATTTGACTGCCTGTGTCCCTCTGGGCCCTCTGC
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AGAATGGGAGAGTCTGCTGCTGTGGATCTGGAGTGTATTGAGAATAAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206967 representing NM_031069
 Red=Cloning site Green=Tags(s)

MPMDVILVLWFCVCTARTVLGFGMDPLQLDIISELDLVNTTLGVTQVAGLHNASKAFLFQDVQREIHSAPHYSEKLIQLFRNKSEFTFLATVQQKPSTSGVILSIRELEHSYFELESSGPREEIRYHYIHGGKPRTEALPYRMADGQWHKVALSVSASHLLHLHIDCNRIYERVIDPPEINLPPGSNLWLGQRNQKHGFFKGI IQDGKII FMPNGFITQCPNLNRTCPTCSDFLSLVQGIMDLQELLAKMTAKLNYAETRLGQLENCHCEKTCQVSGLLY RDQDSWVDGDNCNCTCKSGAVECRRMSCPPLNCSPLDLPVHISGQCCKVCRPKCIYGGKVLAEQQRILT KTCRECRGGVLVKITEACPPLNCSAKDHILPENQCCRVC PGHNFCAEAPKCGENSECKNWNWTKATCECKN GYISVQGNSAYCEDIDECAAKMHYCHANTVCVNL PGLYRCDVPGYIRVDDF SCTEHDDCGSQHNC DN AICTNTVQGHSTCQPGYVNGTICKAFCEEGCRYGGTCVAPNKCVCPSGFTGSHCEKIDIDECAEGFVEC HNYSRCVNLPGWYHCECRSGFHDDGTYSLSGESC IDIDECALRTHTCWNDSACINLAGGFDC LCPSPGSC SGDCPHEGGLKHNGQVWILREDRC SVCSCKDGKIFCRRTACDCQNPNDLFCCECDTRVTSQCLDQSGQ KLYRSGDNWTHSCQCRCLEGEADCWPLACPSLGCEY TAMFEGECCPRCVSDPCLAGNIAYDIRKTC L D S F G V S R L S G A V W T M A G S P C T T C K C K N G R V C C S V D L E C I E N N

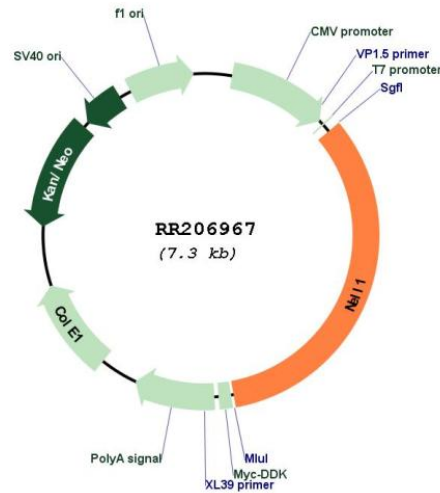
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_031069

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_031069.1](#), [NP_112331.1](#)

RefSeq Size: 2915 bp

RefSeq ORF: 2433 bp

Locus ID: 81733

UniProt ID: [Q62919](#)

Cytogenetics: 1q22

MW: 89.2 kDa

Gene Summary: interacts with and phosphorylated by protein kinase C beta1 (PKCbeta1) and is involved in modulation of osteoblast differentiation; overexpression of human homolog is associated with craniosynostosis [RGD, Feb 2006]