

Product datasheet for **MR218170**

Nell1 (NM_001037906) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nell1 (NM_001037906) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nell1
Synonyms:	B230343H07Rik; I7R6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR218170 representing NM_001037906
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGATGGATGTGATTTTAGTTTTGTGTTCTGTGTGTGCACCGCCAGGACAGTGCTGGGCTTTGGGA
 TGGACCCGTGACCTTCAGATGGACATCATCACTGAACTTGACCTTGTGAACACCACCTGGGGCTCACTCA
 GGTGGCTGGACTACACAATGCCAGTAAGGCATTTCTGTTTCAAGATGTACAGAGAGAGATCCACTCAGCC
 CCTCATGTGAGTGAGAAGCTGATCCAGCTATCCGGAATAAGAGTGAGTTTACCTTTTTGGCTACAGTGC
 AGCAGAAGCCGTCCACCTCAGGGGTGATACTGTCGATCCGGGAGCTGGAACACAGCTATTTGAACTGGA
 GAGCAGTGGCCCAAGAGAAGAGATACGCTATCATTACATCCATGGCGCAAGCCAGGACTGAGGCCCTT
 CCCTACCGCATGGCCGATGGACAGTGGCACAAGGTCGCGTGTCTGTGAGCGCTCTCACCTCTACTCC
 ATGTCGACTGCAATAGGATTTATGAGCGTGTGATAGATCCTCCGGAGACCAACCTTCTCCAGGAAGCAA
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 AGAGACGAGACTTGGTCAACTGGAAAATTGCCACTGTGAGAAGACCTGCCAAGTGAAGTGGGCTGCTCTAC
 AGGGACCAAGACTCCTGGGTAGATGGTGACAACGCAGGAAGTGCACATGCAAAAGTGGTGTGGAGT
 GCCGAAGGATGTCCTGTCCCCACTCAACTGTTCCCCAGACTCACTTCTGTGCATATTTCTGGCCAATG
 TTGTAAGTTTGACAGCAAAAATGTATCTATGGAGGAAAAGTTCTTGCTGAGGGCCAGCGGATTTAACC
 AAGACCTGCCGGGAATGTCGAGGTGGAGTCTTGGTAAAAATCACAGAAGCTTGCCTCCTTTGAAGTGT
 CAGAGAAGGATCATATTTCCGGAGAACAGTCTGCAGGGTCTGCCGAGGTCAAACTTCTGTGCAGA
 AGCACCTAAGTGTGGAGAAAATCGGAATGCAAAAATTGGAATACAAAAGCGACTTGTGAGTCAAGAAT
 GGATACATCTCTGTCCAGGGCAACTCTGCATACTGTGAAGATATCGATGAGTGTGCAGAAAAGTCACT
 ACTGTCATGCCAACACGGTGTGTCAACTTGCCGGGGTTATATCGTGTGACTGCATCCAGGATACAT
 CCGTGTGGATGACTTCTTGTACGGAGCATGATGATTGTGCAGCGGACAACCAACTGTGACAAAAAT
 GCCATCTGTACCAACACAGTCCAGGGACACAGCTGTACCTGCCAGCCAGGCTACGTGGGAAATGGTACTG
 TCTGCAAAGCATTCTGTGAAGAGGGTGCAGATACGGAGGTACCTGTGTGGCCCCAACAATGTGTCTG
 TCCTTCTGGATTCACAGGAAGCCACTGTGAGAAAAGATATTGATGAATGTGCAGAGGGATTCTGTGAGTGC
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 TGTTGACCTTTTCTGTGCCAGAGTGTGACACCAGGGTCACTAGCCAATGTTTAGATCAAAGCGGACAG
 AAGCTCTATCGAAGTGGAGACAACCTGGACCCACAGCTGCCAGCAGTCCGATGTCTGGAAGGAGAGGCAG
 ACTGCTGGCCTTAGCTTGCCTAGTTTGTGCTGTGAATACACAGCCATCTTTGAAGGAGAGTGTGTCC
 CCGTGTGTGAGTACCCCTGCCTGGCTGATAAATTGCCTATGACATCAGAAAAACTTGCCTGGACAGC
 TCTGGTATTTTCAGGCTGAGCGGCGCAGTGTGGACAATGGCTGGATCTCCCTGTACAACCTGTCAATGCA
 AGAATGGGAGAGTCTGCTGCTGTGGATCTGGTGTGCTTGTGAGAATAAC

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218170 representing NM_001037906
Red=Cloning site Green=Tags(s)

MPMDVILVLWFCVCTARTVLGFGMDPDLQMDIITELDLVNTTLGVTQVAGLHNASKAFLFQDVQREIHSAPHVSEKLIQLFRNKSEFTFLATVQQKPSTSGVILSIRELEHSYFELESSGPREEIRYHYIHGGKPRTEALPYRMADGQWHKVALSVSASHLLLVDCNRIYERVIDPPEINLPPGSNLWLGQRNQKHGFFKGI IQDGKII FMPNGFITQCPNLRNRTCPTCSDFLSLVQGIMDLQELLAKMTAKLNYAETRLGQLENCHCEKTCQVSGLLYRDQDSWVDGDNCRNCTCKSGAVECRRMSCPPLNCSPLSPVHISGQCCKVCRPKCIYGGKVLAEGRILT KTCRECRGGVLVKITEACPPLNCSEKDHILPENQCCRVCRGHNFCAEAPKCGENSECKNWNTKATCECKN GYISVQGNSAYCEDIDECAAKMHYCHANTVCVNLPLGLYRDCIPGYIRVDDFSCTEHDDCGSQHNCCKN AICTNTVQGHSTCQPGYVNGTVCKAFCEEGCRYGGTCVAPNKCVCPSGFTGSHCEKIDIDCAEGFVEC HNH SRCVNLPGWYHCECRSGFHDDGTYSLSGESCIDIDECALRTHTCWNDSACINLAGGFDCPCPSGPSC SGDCPHEGGLKHNGQVWILREDRCSVCCKDGKIFCRRTACDCQNPVDFCCPECDTRVTSQCLDQSGQ KLYRSGDNWTHSCQCRCLEGEADCWPLACPSLSCEYTAIFEGECCPRCVSDPCLADNIA YDIRKTCLDS SGISRLSGAVWTMAGSPCTTCQCKNGRVCCSVDLVCLENN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9006_e08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001037906

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_001037906.2](#), [NP_001032995.1](#)

RefSeq Size: 2812 bp

RefSeq ORF: 2433 bp

Locus ID: 338352

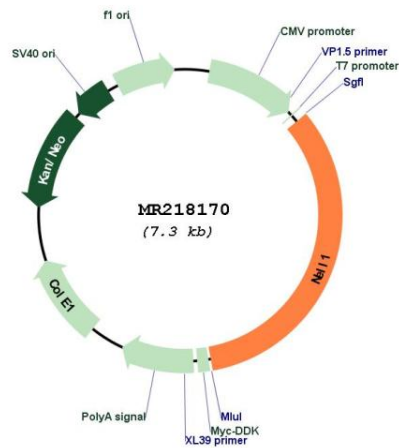
UniProt ID: [Q2VWQ2](#)

Cytogenetics: 7 B4

MW: 89.9 kDa

Gene Summary: Plays a role in the control of cell growth and differentiation. Promotes osteoblast cell differentiation and terminal mineralization.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218170