

Product datasheet for **MC228996**

Nell2 (NM_001289653) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Nell2
Synonyms:	A330108N19Rik; mel91; R75516
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>MC228996 representing NM_001289653
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCACGCCATGGAATCCCGGGTGTACTGAGAACGTTCTGCGTGATCCTCGGGCTTGAGCGGTTTGGG
 GGCTTGGTGTGGACCCCTCCCTACAGATTGACGCTTAAACAGAGTTAGAACTTGGGGAGTCTACAGATGG
 AGTGCGCCAAGTCCCGGACTGCATAATGGGACGAAAGCCTTCCTCTTCCAAGAGTCCCCAGAAGCATA
 AAGGCATCCACTGCTACAGTGAAGCGGTTTTCCAGAAGCTGAGAAATAAACACGAGTTACAATCTTGG
 TGACCTTGAACAGATCCACTTAAATTCGGGAGTTATCCTCTCCATCCACCCTTGGATCACAGGTACCT
 GGAAGTGGAAAGCAGTGGCCATCGGAATGAGATCAGACTCCACTACCGCTCTGGCACTACCGTCCCCAC
 ACGGAAGTGTTCCTTATATTTGGCTGATGCCAAGTGGCACAAGCTCTCCTTAGCCTTCAGTGCCTCTC
 ACTTAATTTTACACATCGACTGCAATAAGATCTATGAACGAGTGGTGGAAATGCCTTCAACAGACTTGCC
 TCTGGGCACCACATTTTGGTTGGGACAGAGAAATAATGCACATGGCTATTTTAAGGGAATAATGCAGGAT
 GTGCACGTTCTTGTGCCTCAGGGCTTCATTGCTCAGTGCCCGACCTTAATCGAACCTGTCCAACT
 GCAACGACTTCCATGGGCTTGTGCAGAAAATCATGGAGCTGCAGGACATTTTATCAAAGACGTGACGCCAA
 GTTGTCAGAGCTGAACAAAGAATGAACAGGCTGGATCAGTGCTACTGTGAGCGGACATGCACTGTGAAG
 GGAACCACTACCGAGAGTCTGAGTCTGGACAGACGGCTGTAAGAACTGCACATGCTTGAACGGGACCA
 TCCAGTGCGAGACTCTGGTCTGCCCTGCTCCTGACTGCCCTCTAAATCGGCCCTGCGTATGTGGATGG
 CAAGTGTGTAAGGAGTGCAAAATCAACCTGCCAGTTCAGGGACGGAGCTACTTTGAGGGAGAAAGGAAC
 ACGGTATACTCATCTTCTGGAATGTGTCTTATATGAATGCAAGGATCAGACCATGAAGCTTGTGAGA
 ACATTGGCTGCCACCCCTTAGATTGCTCCGAGTCTCATCAGATTGCCTTGTCTACAGCTGCTGCAAGGT
 TTGTAAGGTTATGACTTCTGTTCTGAGAAGCATACCTGCATGGAGAACTCGGTCTGCAGGAACCTGAAC
 GACAGGGCTGTGTGAGCTGCAGGGATGGTTTTCGGGCTCTCCGAGAGGACAACGCCTACTGTGAAGACA
 TTGACGAGTGTGCAGAAGGGGCCATTACTGCCGTGAGAACCATGTGTGTGAATACACCTGGTTCTTT
 CATGTGTATCTGCAAACTGGGTACATCAGGATCGACGATTACTCATGTACAGAACATGATGAGTGTCTC
 ACAAACCAAGCACAAATTGTGATGAAAACGCTTTGTGCTTTAACTGTTGGAGGACACAACCTGTGTCTGCA
 AGCCTGGCTACACCGGAATGGAACCAAGTGTGCAAAAGCTTTCTGCAAGATGGCTGTAGAAACGGAGGAGC
 GTGCATTGTGCCAATGTGTGCTGCCACAAAGGCTTACGGGACCCAGCTGTGAGACAGACATTGAC
 GAGTGTCTGAGGGCTTTGTTCAAGTGTGACAGCGTGCCTCACTCAACCTGCCTGGGTGGTATCACT
 GTGAGTGCAGAGACGGCTACCATGACAATGGGATGTTTGCGCCAGGCGGAGAACTCCTGTGAAGATATTGA
 CGAATGCGGGACTGGGAGGCACAGCTGCACCAACGACACCATTTGCTTCACTTGGACGGGGGATACGAT
 TGCCGGTGTCCCATGGGAAGAACTGCACTGGGGACTGCGTGCACGAGGGGAAAGTGAAGCACACCGGCC
 AGATCTGGGTGCTGAAAACGACAGGTGCTCCGTGTGTTCTGCCAGACTGGGTTTGTATGTGTGACG
 GATGGTCTGCGACTGCGAAAACCCACAGTTGACCTTTCTGCTGCCCTGAGTGTGACCCAAAGGCTGAGC
 AGTCAGTGCCTGCATCAAAACGGGAAACCGTGTACAACAGCGGCGACACCTGGGTCCAGGATTGCCGTC
 AGTGCCGCTGCTTGAAGGAGAAGTTGACTGTTGGCCCTGGCTTGCAGAGGTAGAATGTGAATTTAG
 CGTCTTCTGAGAACGAGTGTGCCCACGCTGTGTACCGATCCTTGTGAGGCCGACACCATCCGCAAT
 GACATCACCAAAACCTGCCTGGACGAGATGAACGTGGTTTCGCTTACCGGGTCTTCTGGATCAAGCAGC
 GCACGGAGTGATACCTCTGCCAGTGAAGAATGGCCATTTGTGCTGCTCAGTGGATCCACAGTGCCTTCA
 GGAGCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001289653

Insert Size:

2460 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001289653.1 , NP_001276582.1
RefSeq Size:	3168 bp
RefSeq ORF:	2460 bp
Locus ID:	54003
UniProt ID:	Q61220
Cytogenetics:	15 E3
Gene Summary:	Required for neuron survival through the modulation of MAPK pathways (By similarity). Involved in the regulation of hypothalamic GNRH secretion and the control of puberty (By similarity).[UniProtKB/Swiss-Prot Function]