

Product datasheet for **MR231207**

Nell2 (NM_001289653) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nell2 (NM_001289653) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nell2
Synonyms:	A330108N19Rik; mel91; R75516
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR231207 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCACGCCATGGAATCCCGGGTGTACTGAGAACGTTCTGCGTGATCCTCGGGCTTGGAGCGGTTGGG
GGCTTGGTGTGGACCCCTCCCTACAGATTGACGCTTAAACAGAGTTAGAAGTTGGGGAGTCTACAGATGG
AGTGCGCCAAGTCCCGGACTGCATAATGGGACGAAAGCCTTCTCTTCCAAGAGTCCCCAGAAGCATA
AAGGCATCCACTGCTACAGCTGAGCGGTTTTTCCAGAAGCTGAGAAATAAACACGAGTTCACAATCTTGG
TGACCCTGAAACAGATCCACTTAAATTCGGGAGTTATCCTCTCCATCCACCAGTTGGATCACAGGTACCT
GGAAGTGGAAAGCAGTGGCCATCGGAATGAGATCAGACTCCACTACCGCTCTGGCACTCACCGTCCCCAC
ACGGAAGTGTTCCTTATATTTGGCTGATGCCAAGTGGCACAAGCTCTCCTTAGCCTTCAGTGCCTCTC
ACTTAATTTTACACATCGACTGCAATAAGATCTATGAACGAGTGGTGGAAATGCCTTCAACAGACTTGCC
TCTGGGACCACATTTTGGTTGGGACAGAGAAATAATGCACATGGCTATTTTAAGGAATAATGCAGGAT
GTGCACGTTCTTGTGCATGCCTCAGGGCTTCATTGCTCAGTGCCTCGGACCTTAATCGAACCTGTCCAACAT
GCAACGACTTCCATGGGCTTGTGCAGAAAATCATGGAGCTGCAGGACATTTTATCAAAGACGTGACGCCAA
GTTGTCCAGAGCTGAACAAAGAATGAACAGGCTGGATCAGTGCTACTGTGAGCGGACATGCACTGTGAAG
GGAACCACCTACCGAGAGTCTGAGTCTGGACAGACGGCTGTAAGAACTGCACATGCTTGAACGGGACCA
TCCAGTGCAGACTCTGGTCTGCCCTGCTCCTGACTGCCCTCCTAAATCGGCCCTGCGTATGTGGATGG
CAAGTGTGTGAAGAGTGCAATCAACCTGCCAGTTCAGGGACGGAGCTACTTTGAGGGAGAAAGGAAC
ACGGTACTCATCTTCTGGAATGTGTCTTATATGAATGCAAGGATCAGACCATGAAGCTTGTGAGA
ACATTGGCTGCCACCCCTAGATTGTCCGAGTCTCATCAGATTGCCTTGTCTCACAGCTGCTCAAGGT
TTGTAAAGGTTATGACTTCTGTTCTGAGAAGCATACCTGCATGGAGAACTCGGTCTGCAGGAACCTGAAC
GACAGGGCTGTGTGCAGCTGCAGGGATGGTTTTCGGGCTCTCCGAGAGGACAACGCCTACTGTGAAGACA
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CATGTGTATCTGCAAACTGGGTACATCAGGATCGACGATTACTCATGTACAGAACATGATGAGTGTCTC
ACAAACCAGCACAAATGTGATGAAAACGCTTTGTGCTTAACTGTTGGAGGACACAACGTGTCTGCA
AGCCTGGTACACCGGAATGGAACCACGTGCAAAGCTTCTGCAAAGATGGCTGTAGAAACGGAGGAGC
GTGCATTGCTGCCAATGTGTGTGCTGCCACAAGGCTTCACGGGACCCAGCTGTGAGACAGACATTGAC
GAGTGTCTGAGGGCTTTGTTTCAGTGTGACAGCCGTGCCAACTGCATCAACCTGCCTGGGTGGTATCACT
GTGAGTGCAGAGACGGCTACCATGACAATGGGATGTTTGCGCCAGGCGGAGAATCCTGTGAAGATATTGA
CGAATGCGGGACTGGGAGGCACAGCTGCACCAACGACACCATTTGCTTCAACTTGGACGGGGATACGAT
TGCCGGTGTCCCATGGGAAGAACTGCACTGGGGACTGCGTGCACGAGGGGAAAGTGAAGCACACCGGCC
AGATCTGGGTGTGAAAACGACAGGTGCTCCGTGTGTTCTGCCAGACTGGGTTTGTATGTGTGACG
GATGGTCTGCGACTGCGAAAACCCACAGTTGACCTTCTGCTGCCCTGAGTGTGACCCAAGGCTGAGC
AGTCAGTGCCTGCATCAAAACGGGAAACCGTGTACAACAGCGGCGACACCTGGGTCCAGGATTGCCGTC
AGTGCCGCTGCTTGAAGGAGAAGTTGACTGTTGGCCCTGGCTTGCCCAGAGGTAGAATGTGAATTTAG
CGTCTTCTGAGAACGAGTGTGCCACGCTGTGTACCGATCCTTGTGACGGCCGACACCATCCGCAAT
GACATACCAAAACCTGCCTGGACGAGATGAACGTGGTTTCGCTTACCGGGTCTTCTGGATCAAGCACG
GCACGGAGTGTACCTCTGCCAGTGAAGAATGGCCATTTGTGCTGCTCAGTGGATCCACAGTGCCTTCA
GGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231207 protein sequence
 Red=Cloning site Green=Tags(s)

MHAMESRVLLRTFCVILGLGAVWGLGVDPQLQIDVLTELELGESTDGVVRQVPGLHNGTKAFLFQESPRSI
 KASTATAERFFQKLRNKHEFTILVTLKQIHLNSGVILSIHHLDRHYLELESSGHRNEIRLHYRSGTHRPH
 TEVFPYILADAKWHKLSLAFSASHLILHIDCNKIYERVVEMPSTDLPLGTTFFWLQQRNNAHGYPFKGIMQD
 VHVLVMPQGFIAQCPDLNRTCPTCNDFHGLVQKIMELQDILSKTSAKLSRAEQRMNRLDQCYCERTCTVK
 GTTYRESESWTDGCKNCTCLNGTIQCETLVCPAPDCPPKSAPAYVDGKCKECKSTCQFQGRSYFEGERN
 TVYSSSGMCVLYECKDQTMKLVENIGCPPLDCPESHQIALSHSCCKVCKGYDFCSEKHTCMENSVCRLN
 DRAVCSRDGFRALREDNAYCEDIDECAEGRHYCRENTMCVNTPGSFMCICTGYIRIDDYSCTEHDECL
 TNQHNCDENALCFNTVGGHNCVCKPGYTGNGTTCKAFCKDGCNRNGGACIAANVCACPQGF TGPSCE TDID
 ECSEGFVQCD SRANCINLPGWYHCECRDGYHDNGMFAPGGESCEDIDECGTGRHSCTNDTICFNLDGGYD
 CRCPHGKNCTGDCVHEGKVKHTGQIWVLENDRCVCSQTFVCMRRMVCDCENPTVDLSCCPECDPRLS
 SQCLHQGETVYNSGDTWVQDCRQCRLQGEVDCWPLACPEVECEF SVLPENECCPRCVTDPCQADTIRN
 DITKTCLDEMNVVRF TGSSWIKHGTECTLCQCKNGHLCCSVDPQCLQEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_001289653.1](#), [NP_001276582.1](#)

RefSeq Size: 3168 bp

RefSeq ORF: 2460 bp

Locus ID: 54003

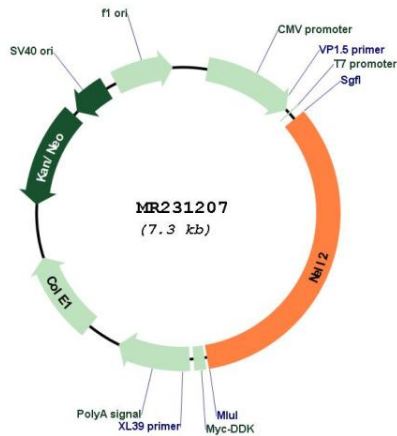
UniProt ID: [Q61220](#)

Cytogenetics: 15 E3

MW: 91.4 kDa

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]

Product images:



Circular map for MR231207