

Product datasheet for **MR210803**

Nell2 (NM_016743) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nell2 (NM_016743) 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:

>MR210803 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCACGCCATGGAATCCCGGGTGTACTGAGAACGTTCTGCGTGATCCTCGGGCTTGGAGCGGTTGGG
GGCTTGGTGTGGACCCCTCCCTACAGATTGACGCTTAAACAGAGTTAGAAGTTGGGGAGTCTACAGATGG
AGTGCGCCAAGTCCCGGACTGCATAATGGGACGAAAGCCTTCTCTTCCAAGAGTCCCCAGAAGCATA
AAGGCATCCACTGCTACAGCTGAGCGGTTTTTCCAGAAGCTGAGAAATAAACACGAGTTCACAATCTTGG
TGACCCTGAAACAGATCCACTTAAATTCGGGAGTTATCCTCTCCATCCACCAGTTGGATCACAGGTACCT
GGAAGTGGAAAGCAGTGGCCATCGGAATGAGATCAGACTCCACTACCGCTCTGGCACTCACCGTCCCCAC
ACGGAAGTGTTCCTTATATTTGGCTGATGCCAAGTGGCACAAGCTCTCCTTAGCCTTCAGTGCCTCTC
ACTTAATTTACACATCGACTGCAATAAGATCTATGAACGAGTGGTGGAAATGCCTTCAACAGACTTGCC
TCTGGGACACCACATTTTGGTTGGGACAGAGAAATAATGCACATGGCTATTTTAAGGAATAATGCAGGAT
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GCAACGACTTCCATGGGCTTGTGCAGAAAATCATGGAGCTGCAGGACATTTTATCAAAGACGTGACGCCAA
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TCCAGTGCAGACTCTGGTCTGCCCTGCTCCTGACTGCCCTCCTAAATCGGCCCTGCGTATGTGGATGG
CAAGTGTGTGAAGAGTGCAATCAACCTGCCAGTTCAGGGACGGAGCTACTTTGAGGGAGAAAGGAAC
ACGGTACTCATCTTCTGGAATGTGTCTTATATGAATGCAAGGATCAGACCATGAAGCTTGTGAGA
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GACAGGGCTGTGTGCAGCTGCAGGGATGGTTTTCGGGCTCTCCGAGAGGACAACGCCTACTGTGAAGACA
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GGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR210803 protein sequence
Red=Cloning site Green=Tags(s)

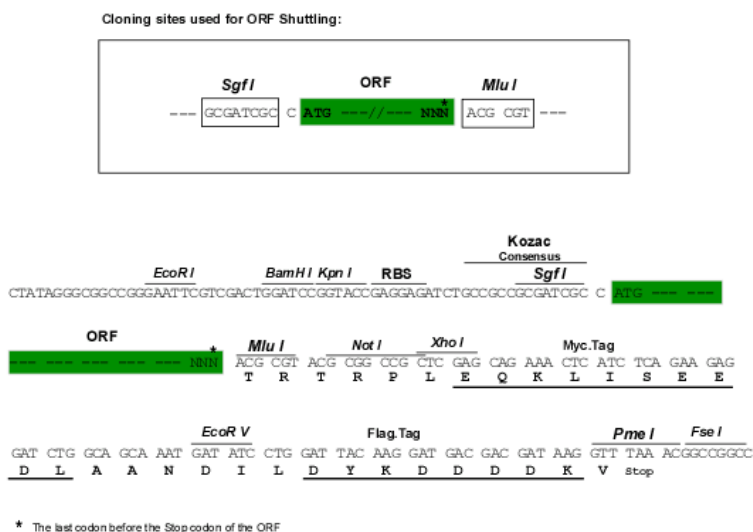
MHAMESRVLLRTFCVILGLGAVWGLGVDPQLQIDVLTELELGESTDGVVRQVPLHNGTKAFLFQESPRSI
KASTATAERFFQKLRNKHEFTILVTLKQIHLNSGVILSIHHLDRHYLELESSGHRNEIRLHYRSGTHRPH
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VHVLVMPQGFIAQCPDLNRTCPTCNDFHGLVQKIMELQDILSKTSAKLSRAEQRMNRLDQCYCERTCTVK
GTTYRESESWTDGCKNCTCLNGTIQCETLVCPAPDCPPKSAPAYVDGKCKECKSTCQFQGRSYFEGERN
TVYSSSGMCVLYECKDQTMKLVENIGCPPLDCPESHQIALSHSCCKVCKGYDFCSEKHTCMENSVCRLN
DRAVCSRDGFRALREDNAYCEDIDECAEGRHYCRENTMCVNTPGSFMCICTGYIRIDDYSCTEHDECL
TNQHNCDENALCFNTVGGHNCVCKPGYTGNGTTCKAFCKDGCNRNGGACIAANVCACPQGF TGPSCE TDID
ECSEGFVQCD SRANCINLPGWYHCECRDGYHDNGMFAPGGESCEDIDECGTGRHSCTNDTICFNLDGGYD
CRCPHGKNTGDCVHEGKVKHTGQIWVLENDRCVCSQTFVCMRRMVCDCENPTVDLSCCPECDPRLS
SQCLHQNGETVYNSGDTWVQDCRQCRLQGEVDCWPLACPEVECEF SVLPENECCPRCVTDPCQADTIRN
DITKTCLDEMNVVRF TGSSWIKHGTECTLCQCKNGHLCCSVDPQCLQEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_016743

ORF Size: 2460 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_016743.2](#), [NP_058023.2](#)

RefSeq Size: 3385 bp

RefSeq ORF: 2460 bp

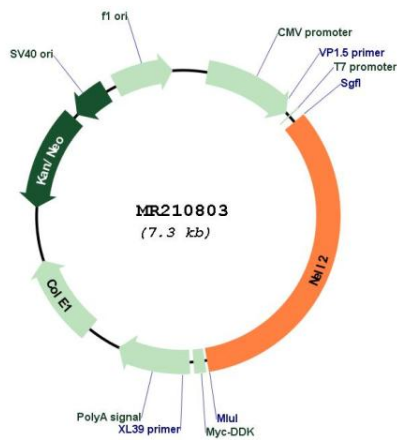
Locus ID: 54003

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 MR210803