

Product datasheet for **MG210803**

Nell2 (NM_016743) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nell2 (NM_016743) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nell2
Synonyms:	A330108N19Rik; mel91; R75516
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210803 representing NM_016743
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCACGCCATGGAATCCCGGGTGTACTGAGAACGTTCTGCGTGATCCTCGGGCTTGGAGCGGTTGGG
 GGCTTGGTGTGGACCCCTCCCTACAGATTGACGCTTAAACAGAGTTAGAAGTTGGGGAGTCTACAGATGG
 AGTGCGCCAAGTCCCGGACTGCATAATGGGACGAAAGCCTTCTCTTCCAAGAGTCCCCAGAAGCATA
 AAGGCATCCACTGCTACAGCTGAGCGGTTTTTCCAGAAGCTGAGAAATAAACACGAGTTCACAATCTTGG
 TGACCCTGAAACAGATCCACTTAAATTCGGGAGTTATCCTCTCCATCCACCCTTGGATCACAGGTACCT
 GGAAGTGGAAAGCAGTGGCCATCGGAATGAGATCAGACTCCACTACCGCTCTGGCACTCACCGTCCCCAC
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 ACTTAATTTTACACATCGACTGCAATAAGATCTATGAACGAGTGGTGGAAATGCCTTCAACAGACTTGCC
 TCTGGGACACCACATTTTGGTTGGGACAGAGAAATAATGCACATGGCTATTTTAAAGGAATAATGCAGGAT
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 GCAACGACTTCCATGGGCTTGTGCAGAAAATCATGGAGCTGCAGGACATTTTATCAAAGACGTGACGCCAA
 GTTGTCCAGAGCTGAACAAAGAATGAACAGGCTGGATCAGTGCTACTGTGAGCGGACATGCACTGTGAAG
 GGAACCACCTACCGAGAGTCTGAGTCTGGACAGACGGCTGTAAGAACTGCACATGCTTGAACGGGACCA
 TCCAGTGCAGACTCTGGTCTGCCCTGCTCCTGACTGCCCTCCTAAATCGGCCCTGCGTATGTGGATGG
 CAAGTGTGTGAAGGAGTGCAATCAACCTGCCAGTTCAGGGACGGAGCTACTTTGAGGGAGAAAGGAAC
 ACGGTACTCATCTTCTGGAATGTGTCTTATATGAATGCAAGGATCAGACCATGAAGCTTGTGAGA
 ACATTGGCTGCCACCCCTAGATTGTCCGAGTCTCATCAGATTGCCTTGTCTCACAGCTGCTCAAGGT
 TTGTAAAGGTTATGACTTCTGTTCTGAGAAGCATACCTGCATGGAGAACTCGGTCTGCAGGAACCTGAAC
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 TTGACGAGTGTGCAGAAGGGCGCCATTACTGCCGTGAGAACACCATGTGTGTGAATACACCTGGTCTTT
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 ACAAAACCAGCACAATTGTGATGAAAACGCTTTGTGCTTAACTGTTGGAGGACACAACCTGTGTCTGCA
 AGCCTGGCTACACCGGAATGGAACCACGTGCAAAGCTTCTGCAAAGATGGCTGTAGAAACGGAGGAGC
 GTGCATTGCTGCCAATGTGTGTGCTGCCACAAGGCTTCACGGGACCCAGCTGTGAGACAGACATTGAC
 GAGTGTCTGAGGGCTTTGTTTCAAGTGTGACAGCCGTGCCAACTGCATCAACCTGCCTGGGTGGTATCACT
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 CGAATGCGGGACTGGGAGGCACAGCTGCACCAACGACACCATTTGCTTCAACTTGGACGGGGGATACGAT
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 AGTGCCGCTGCTTGAAGGAGAAGTTGACTGTTGGCCCTGGCTTGGCCAGAGGTAGAATGTGAATTTAG
 CGTCTTCTGAGAACGAGTGTGCCACGCTGTGTACCGATCCTTGTGAGCCGACACCATCCGCAAT
 GACATACCAAAACCTGCCTGGACGAGATGAACGTGGTTTCGCTTACCGGGTCTTCTGGATCAAGCAGC
 GCACGGAGTGTACCTCTGCCAGTGAAGAATGGCCATTTGTGCTGCTCAGTGGATCCACAGTGCCTTCA
 GGAGCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

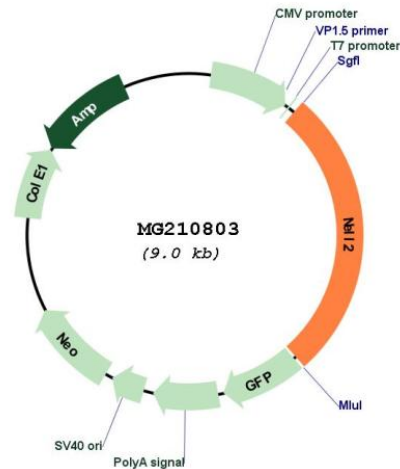
Protein Sequence: >MG210803 representing NM_016743
Red=Cloning site Green=Tags(s)

MHAMESRVLLRTRFCVILGLGAVWGLGVDPQLQIDVLTELELGESTDGVVRQVPLHNGTKAFLFQESPRSI
KASTATAERFFQKLRNKHEFTILVTLKQIHLNSGVILSIHHLDRHYLELESSGHRNEIRLHYRSGTHRPH
TEVFPYILADAKWHKLSLAFSASHLILHIDCNKIYERVVEMPSTDLPLGTTFFWLQQRNNAHGYPKIMQD
VHVLVMPQGFIAQCPDLNRTCPCNDFHGLVQKIMELQDILSKTSAKLSRAEQRMNRLDQCYCERTCTVK
GTTYRESESWTDGCKNCTCLNGTIQCETLVCPAPDCPPKSAPAYVDGKCKECKSTCQFQGRSYFEGERN
TVYSSSGMCVLYECKDQTMKLVENIGCPPLDCPESHQIALSHSCCKVCKGYDFCSEKHTCMENSVCRLN
DRAVCSRDGFRALREDNAYCEDIDCAEGRHYCRENTMCVNTPGSFMCICTGYIRIDDYSCTEHDECL
TNQHNCDENALCFNTVGGHNCVCKPGYTGNGTTCKAFCKDGCNRNGGACIAANVCACPQGFSGPSCETDID
ECSEGFVQCDSTRANCINLPGWYHCECRDGYHDNGMFAPGGESCEDIDECGTGRHSCTNDTICFNLDGGYD
CRCPHGKNTGDCVHEGKVKHTGQIWVLENDRCVCSQTFVCMRRMVCDCENPTVDLSCCPECDPRLS
SQCLHQGETVYNSGDTWVQDCRQCRLQGEVDCWPLACPEVECEF SVLPENECCPRCVTDPCQADTIRN
DITKTCLDEMNVVRF TGSSWIKHGTECTLCQCKNGHLCCSVDPQCLQEL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:



ACCN: NM_016743

ORF Size: 2457 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

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]