

Product datasheet for **MR209340**

Numbl (NM_010950) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Numbl (NM_010950) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Numbl
Synonyms:	nbl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209340 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCAGCGCGCCGCGCCAGCGCGGACCCAGGAGACCTGATCAGCATTTGTCCCAGCCCCCTGTG
 GGGCCTCGGGGCCCTGAAACCTTCAGGACGGAGTCAGACGGGCAGGCCACCATGAACAAGTTACGGCA
 GAGTCTGCGGCGGAGGAAGCCAGCCTATGTGCCTGAGGCATCACGCCACACCAGTGGCAGGCAGATGAG
 GATGCGGTGCGCAAAGGCACCTGCAGCTTCCCTGTTAGGTACCTGGGCCACGTGGAAGTGGAGGAGTCCC
 GGGGAATGCACGTTTGTGAAGATGCTGTGAAGAAGCTGAAGGCGATGGCCGGAAGTCCGTGAAGTCTGT
 CCTGTGGGTGTCAGCTGATGGGCTCCGAGTGGTGGATGACAAGACCAAGGACCTGCTGGTAGACCAGACC
 ATTGAGAAGGTCTCCTTCTGTGCTCCTGATCGCAACCTGGACAAGGCTTCTCCTACATATGCCGCGACG
 GCACCACAGCCGCTGGATCTGCCACTGCTTCTGGCCCTCAAGGACTCTGGTGAAGGCTGAGCCATGC
 TGTGGGCTGCGCGTTTCGCCGCTGCCTGGAGAGGAAGCAGCGACGGGAGAAGGAATGCGGAGTACCGCC
 GCCTTCGACGCCAGTTCGACCCAGCTTTCGCCGTGAGGGCTCCTTCGCGCTGTGCGGGGCGGGCGGCGCTG
 CCGAGCGCGAGGCAGGGGACAAGAAGAAAGCCGAGCAGCAGCTGCTCCTGCTGTGGCTCCTGGACCTGC
 CCAGCCTGGGCACGTTTCTCCGACACCAGCCACCACATCCCCTGGAGAGAAGGGAGAGGCGGGCACCCCA
 GTGGGTGCAGGCACCACTGCTGCTGCCATTCCCGGCGCCACGCACCTCTGGAGCAGTGGTTGCCAGG
 GCTCCTTTCGTGGGTTCCCTGCCCTCAGTCAGAAGAACTCACCTTCAAACGTCAGCTGAGCCTACGGTT
 GAATGAGCTGCCATCAACTGCAGCGCCGACGGACTCCAGGTGAAGGGCACAGTGCCTGAGATGGAG
 CCTCCTGGTACCGGGGACAGCGATGGCATCAATGCTCTGTGCACACAGATCAGCTCGTCTTTCGCCAGCG
 CTGGGGCCCCAGCGTCAGGGCCACCACCTGCCACAACAGGGACTTCTGCCTGGGGTGCAGCCCTCCGTACC
 CGCTGCAGCTGCCTTCCAGCCTGGGCACAAGCGGACACCCTCTGAGGCTGAGCGATGGTTGGAGGAAGTG
 TCCCAGGTGGCTAAGGCCAGCAGCAACAGCAACAGCAGCAGCAGCAACAGCAGCAGCAAGCCACCT
 CCGTGCCACCAATGCCACCATGGCCCCACCCTTCAACCCTTTTCTGCCCCAGTGGGGCCCTTTGACAC
 TGCAGCTGCCAAGTGGCTGTTTTCTGCCGCCACACATATGCAGCCTCCGTTTGTGCCCGCTACCCA
 GGTCTGGGTTATCCACCAATGCCCGGGTGCCTGTGGTGGGCATCACACCTTACAGATGGTAGCCAACG
 CCTTCTGCTCAGCTGCCAGCTCCAGCCCCAACCTGCCACACTGCTTGGAAAAGCTGGGGCCTTCCCCC
 ACCTGTCACCCAGTCCCCTGGGGGCCAGGCCGTCGCGCCCAATGGGGCTCCTGGCCCCCAGAG
 CCAGCGCCTGCCCTGCCCTGAGTTGGACCCCTTCGAGGCCAGTGGGGGCACTAGAAGGCAAACCCG
 CTGTGGAGAAACCCTCAACCCCTTCTCTGGTGAATTGCAGAAGACCTTCGAGATTGAACGTG

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209340 protein sequence
 Red=Cloning site Green=Tags(s)

MSRSAASGGPRRPDQHLSPAPCGASGPPETFRTESDGAGTMNKLRSLSRRRKPAYVPEASRPHQWQADE
 DAVRKGTCSPVRYLGHVEVEESRGMHVCEDAVKLLKAMGRKSVKSVLWVSADGLRVVDDKTKDLLVDQT
 IEKVSFCAPDRNLDAFYSYICRDGTTTRRWIHCFLALKDSGERLSHAVGCAFAACLERKQRREKECGVTA
 AFDASRTSFAREGSFRLSGGGRPAEREAGDKKAEAAAAPAVAPGPAQPGHVSPTPATTSPGEKGEAGTP
 VAAGTAAAIIPRRHAPLEQLVRQGSFRGFPALSQKNSPFKRQLSLRLNELPSTLQRRTDFQVKGTVPEME
 PPGTGDSGINALCTQISSFASAGAPASGPPPATTGTSAWGEPSPVAAAFAQPGHKRTPSEAERWLEEV
 SQVAKAQQQQQQQQQQQQATSVPPMPTMAPTLQPFSAVGFDPDAAAQVAVFLPPTHMQPPFPAYP
 GLGYPPMPRPVVGITPSQMVANAFCSAAQLQPQATLLKGAGFPPPAAPSAPGGQARPRPNGAPWPPE
 PAPANPELDPFEAQWAALEGKPAVEKPSNPFSGDLQKTFEIEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010950

ORF Size: 1815 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_010950.2](#), [NP_035080.2](#)

RefSeq Size: 2733 bp

RefSeq ORF: 1815 bp

Locus ID: 18223

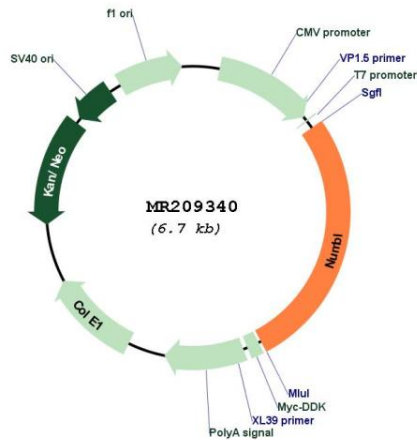
UniProt ID: [O08919](#)

Cytogenetics: 7 A3

MW: 64.1 kDa

Gene Summary: Plays a role in the process of neurogenesis. Required throughout embryonic neurogenesis to maintain neural progenitor cells, also called radial glial cells (RGCs), by allowing their daughter cells to choose progenitor over neuronal cell fate. Not required for the proliferation of neural progenitor cells before the onset of embryonic neurogenesis. Also required postnatally in the subventricular zone (SVZ) neurogenesis by regulating SVZ neuroblasts survival and ependymal wall integrity. Negative regulator of NF-kappa-B signaling pathway. The inhibition of NF-kappa-B activation is mediated at least in part, by preventing MAP3K7IP2 to interact with polyubiquitin chains of TRAF6 and RIPK1 and by stimulating the 'Lys-48'-linked polyubiquitination and degradation of TRAF6 in cortical neurons.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209340