

Product datasheet for **MG209340**

Numbl (NM_010950) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Numbl (NM_010950) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Numbl
Synonyms:	nbl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209340 representing NM_010950
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCCGACGCGCGGCCAGCGGGACCCAGGAGACCTGATCAGCATTTGTCGCCAGCCCCCTGTG
 GGGCCTCGGGGCCCTGAAACCTTCAGGACGGAGTCAGACGGGCAGGCACCATGAACAAGTTACGGCA
 GAGTCTGCGGCGGAGGAAGCCAGCCTATGTGCCTGAGGCATCACGCCACACCAGTGGCAGGCAGATGAG
 GATGCGGTGCGCAAAGGCACCTGCAGCTTCCCTGTTAGGTACCTGGGCCACGTGGAAGTGGAGGAGTCCC
 GGGGAATGCACGTTTGTGAAGATGCTGTGAAGAAGCTGAAGGCGATGGCCGGAAGTCCGTGAAGTCTGT
 CCTGTGGGTGTCAGCTGATGGGCTCCGAGTGGTGGATGACAAGACCAAGGACCTGCTGGTAGACCAGACC
 ATTGAGAAAGTCTCCTTCTGTGCTCCTGATCGCAACCTGGACAAGGCTTCTCCTACATATGCCCGACG
 GCACCACACGCCGCTGGATCTGCCACTGCTTCCCTGGCCCTCAAGGACTCTGGTGAAGGCTGAGCCATGC
 TGTGGGCTGCGCGTTTCGCCGCTGCCTGGAGAGGAAGCAGCGACGGGAGAAGGAATGCGGAGTACCGCC
 GCCTTCGACGCCAGTCGACACCAGCTTTCGCCGTGAGGGCTCCTTCGCGCTGTCCGGGGCGGGCGGCGCTG
 CCGAGCGCGAGGCAGGGGACAAGAAGAAAGCCGAGCAGCAGCTGCTCCTGCTGTGGCTCCTGGACCTGC
 CCAGCCTGGGCACGTTTCTCCGACACCAGCCACCACATCCCTGGAGAGAAGGGAGAGGCGGGCACCCCA
 GTGGCTGCAGGCACCACTGCTGCTGCCATTCCCGGCGCCACGCACCTCTGGAGCAGTGGTTGCCCAGG
 GCTCCTTTCGTGGGTTCCCTGCCCTCAGTCAGAAGAACTCACCTTCAAACGTCAGCTGAGCCTACGGTT
 GAATGAGCTGCCATCAACTGCAGCGCCGACGGACTCCAGGTGAAGGGCACAGTGCCTGAGATGGAG
 CCTCCTGGTACCGGGACAGCGATGGCATCAATGCTCTGTGCACACAGATCAGCTCGTCTTTCGCCAGCG
 CTGGGGCCCCAGCGTCAGGGCCACCACCTGCCACAACAGGGACTTCTGCCTGGGGTGGAGCCCTCCGTACC
 CGCTGCAGCTGCCTTCCAGCCTGGGCACAAGCGGACACCCTCTGAGGCTGAGCGATGGTTGGAGGAAGTG
 TCCAGGTGGCTAAGGCCAGCAGCAACAGCAACAGCAGCAGCAGCAACAGCAGCAGCAAGCCACCT
 CCGTGCCACCAATGCCACCATGGCCCCACCCTTCAACCCTTTTCTGCCCCAGTGGGGCCCTTTGACAC
 TGCAGCTGCCAAGTGGCTGTTTTCTGCCGCCACACATATGCAGCCTCCGTTTGTGCCCGCTACCCA
 GGTCTGGGTTATCCACCAATGCCCGGGTGCCTGTGGTGGGCATCACACCTTACAGATGGTAGCCAACG
 CCTTCTGCTCAGCTGCCAGCTCCAGCCCCAACCTGCCACACTGCTTGGAAAAGCTGGGGCCTTCCCCC
 ACCTGTCGACCCAGTCCCCTGGGGCCAGGCCGTCGCGCCCAATGGGGCTCCTGGCCCCCAGAG
 CCAGCGCCTGCCCTGCCCTGAGTTGGACCCCTTCGAGGCCAGTGGGGGCACTAGAAGGCAAACCCG
 CTGTGGAGAAACCCTCAACCCCTTCTCTGGTGACTTGCAGAAGACCTTCGAGATTGAAC TG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209340 representing NM_010950
 Red=Cloning site Green=Tags(s)

MSRSAASGGPRRPDQHLSPAPCGASGPPETFRTESDGAGTMNKLRSLSRRRKPAYVPEASRPHQWQADE
 DAVRKGTCSPVRYLGHVEVEESRGMHVCEDAVKLKLKAMGRKSVKSVLWVSADGLRVDDKTKDLLVDQT
 IEKVSFCAPDRNLDAFYSYICRDGTTTRRWIHCFLALKDSGERL SHAVGCAFAACLERKQRREKECGVTA
 AFDASRTSFAREGSFRLSGGGRPAEREAGDKKKAEEAAAAPAVAPGPAQPGHVSPTPATTSPGKGEAGTP
 VAAGTTAAAIIPRRHAPLEQLVRQGSFRGFPALSQKNSPFKRQLSLRLNELPSTLQRRTDFQVKGTVPEME
 PPGTGSDGINALCTQISSSFASAGAPASGPPATTGTSAWGEPSPVAAAAFQPGHKRTPSEAERWLEEV
 SQVAKAQQQQQQQQQQQQATSVPPMPTMAPTLQPFSAVGFDFDAAAQVAVFLPPTHMQPPFVPAYP
 GLGYPPMPRPVVGITPSQMVANAFCSAAQLQPATLLGKAGAFPPPAAPSAPGGQARPRPNGAPWPPE
 PAPAPAPELDPFEAQWAALEGKPAVEKPSNPFSGDLQKTFEIEL

TRTRPLE - GFP Tag - V

Restriction Sites:

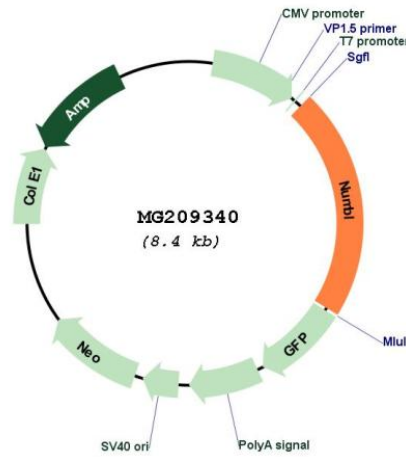
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_010950
 ORF Size: 1812 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:	<ol style="list-style-type: none">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
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]