

## Product datasheet for **MG209237**

### **Numb (BC033459) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Numb (BC033459) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Numb
Synonyms:	mnb, m-numb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209237 representing BC033459  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAACAAACTACGGCAAAGCTTCAGGAGAAAGAACGCTTTATGTCCCAGAGGCCAGCCGTCCACATC  
 AGTGGCAGACAGATGAAGAAGGAGTCCGCACTGGAAAGTGTAGCTTCCCAGTTAAGTACCTCGGCCACGT  
 AGAAGTTGATGAGTCAAGAGGAATGCACATCTGTGAAGATGCCGTAAGAGATTGAAAGCTACGGGAAAG  
 AAAGCAGTGAAGGCCGTTCTGTGGGTGTGAGCGGATGGGCTCAGAGTTGTGGACGAGAAAATAAGGACC  
 TCATAGTTGACCAGACAATAGAAAAAGTTTCTTCTGTGCCCCAGATAGGAACTTTGACAGAGCCTTTTC  
 TTACATATGTCGCGATGGCACCCTCGGCGATGGATCTGTCTATTGTTTCATGGCTGTCAAAGACACGGGG  
 GAAAGACTGAGCCAGCCGTGGGCTGTGCTTTTGCAGCCTGTTTAGAGCGTAAACAGAAGCGGGAGAAGG  
 AGTGTGGCGTCACTGCTACTTTTGTAGCCAGTAGAACCCTTTCACAAGAGAAGGATCATTCCGTGTAC  
 AACTGCCACTGAGCAAGCCGAAAGAGAGGAGATCATGAAACAGTTGCAAGATGCCAAGAAAGCTGAGACA  
 GACAAGACAGCTGTTGGTCCATCAGTGGCTCCTGGCAACTGCTCCATCCCCATCCTCTCCACCTCTC  
 CCACTCCGGATGGCACTGCATCTTCAGAGATGAACAATCCCCATGCTATCCCACGCCGGCATGCACCAAT  
 TGAACAGCTTGTCTCGTCAAGGCTCTTCCGGGATTTCTGCTCTTAGCCAGAAGATGTCACCCTTAA  
 CGCCAGCTGTCCCTCCGCATCAATGAGTTGCCCTCCACTATGCAGAGGAAGACTGATTTCCCAATAAAAA  
 ACACAGTGCCCGAGGTGGAAGGAGAGGCCGAGAGCATCAGCTCCTTGTGTTCCAGATCACCAGTGCCTT  
 CAGCACGCCCTCTGAGGACCCCTTCTCCTCCGCCCAATGACCAACCAGTGACATTGGTGGCACCACAG  
 TCTCCTGTGTTACAAGGGACTGAGTGGGTGAGTCTTCTGGTGTGCTCCTCCAGGTCTCTTCCAGGCTG  
 GTCACAGACGCACTCCCTCTGAAGCTGACCGCTGGTTAGAAGAAGTGTCAAAGAGTGTGCGGGCCAGCA  
 GCCTCAGGTCTCAGCTGCCCTCTGCAGCCAGTCTCCAGCCGCTCCGCCCGCCGCTTGCCTCCCA  
 GCACCTCCTTTCAAGGACATGCCTTCTCACGTCCCAGCCTGTGCCCGTGGGTGTGGTCCACCCCTAC  
 AACCCAGCTTTGTCCCTACCCAGTCTACCCTGTGGCCAACGGGATGCCCTACCCAGCCTCTAATGTGCC  
 TGTAGTGGGCATCACCCATCCCAGATGGTAGCCAATGTGTTGGCACTGCAGGCCACCCTCAGACCCT  
 CATCCACATCAGTCGCCAAGCCTGGCCAAGCAGCAGACATTCCCTCAATATGAGACAAGTAGTGCTACCA  
 CCAGTCCCTTCTTAAGCCTCCTGCTCAGCACCTCAATGGTCTGCAGCTTCAATGGTGTAGACAAATGG  
 TGGGCTAGCCTCAGAAACAGGCATGCAGAAGTCCCTCCAGGCACCTGCCAGTGGATCCTTTGAAAGCT  
 CAGTGGGCGCACTAGAAAGCAAGTCCAAGCAGCGTACAATCCTTCTCCTACCAACCCTTCTCCAGTG  
 ACTTACAGAAAACGTTTGAATAGAACTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209237 representing BC033459  
 Red=Cloning site Green=Tags(s)

MNKLRSFRRKDVVPEASRPHQWQTDDEEGVRTGKCSFPVKYLGHVEVDES RMHICEDAVKRLKATGK  
 KAVKAVLWVSADGLRVVDEKTKDLIVDQTIKVSFCAPDRNFDRAFSYICRDGTRR WICHCFMAVKDTG  
 ERLSHAVGCAFAACLERKQKREKECGVTATFDASRTTFTREGSFRVTTATEQAEREEIMKQLQDAKKAET  
 DKTAVGPSVAPGNTAPSPSSPTSPDPGTASSEMNPHAIIPRRHAPIEQ LARQGSFRGFPALSQKMSPFK  
 RQLSLRINELPSTMQRKTDPIKNTVPEVEGEAESISSLCSQITSAFSTPSEDPFSSAPMTKPVTLVAPQ  
 SPVLQGTWEGQSSGAASPLFQAGHRRTPSEADRWLEEVSKSVRAQQPQVSAAPLQPVLP PPPAAIAPP  
 APPFQGHAF L TSQPVVGVVPPLPQAFVPTQSYPVANGMPYPASNVPVVGITPSQMVANVFGTAGHPQTT  
 HPHQSPSLAKQQTFPQYETSSATTSPFFKPPAQHLNGSAAFNGVDNGLASGNRHAEVPPGTCVPDPFEA  
 QWAALESKSKQRTNPSPTNPFSSDLQKTFEIEL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** BC033459

**ORF Size:** 1779 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:** [BC033459.1](#)

**RefSeq Size:** 3495 bp

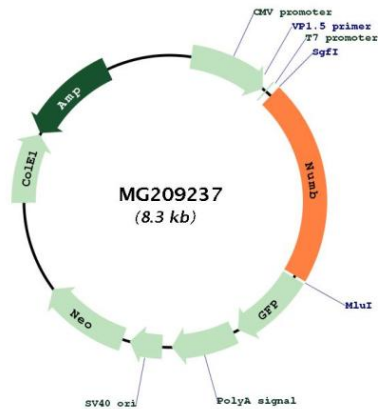
**RefSeq ORF:** 1781 bp

**Locus ID:** 18222

**Cytogenetics:** 12 D1

**Gene Summary:**

This gene encodes a conserved protein that is distributed asymmetrically during cell division in the developing embryo. The encoded protein participates in cell fate decisions by interacting with the Notch receptor. Loss of function of this gene results in severe defects in neural development and loss of viability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

**Product images:**

Circular map for MG209237