

Product datasheet for **MG225820**

Numb (NM_001136075) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Numb (NM_001136075) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Numb
Synonyms:	m-num; Nb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG225820 representing NM_001136075
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACAAACTACGGCAAAGCTTCAGGAGAAAGAACGTTTATGTCCCAGAGGCCAGCCGTCCACATC
 AGTGGCAGACAGATGAAGAAGGAGTCCGCACTGGAAAGTGTAGCTTCCCAGTTAAGTACCTCGGCCACGT
 AGAAGTTGATGAGTCAAGAGGAATGCACATCTGTGAAGATGCCGTAAGAGATTGAAAGCTGAAAGGAAG
 TTCTTCAAAGGCTTCTTTGGAAAAACGGGAAAGAAAGCAGTGAAGGCCGTTCTGTGGGTGTGAGCGGATG
 GGCTCAGAGTTGTGGACGAGAAACTAAGGACCTCATAGTTGACCAGACAATAGAAAAAGTTTCTTCTG
 TGCCCCAGATAGGAACCTTGACAGAGCCTTTTCTACATATGTCGTGATGGCACCCTCGGCGATGGATC
 TGTCAATTGTTTCAAGGATGTTCAAGACACGGGGGAAAGACTGAGCCACGCCGTTGGCTGTGCTTTTGCAG
 CCTGTTTAGAGCGTAAACAGAAGCGGGGAGAGGAGTGTGGCGTCACTGCTACTTTTGTGCCAGTAGAAC
 CACTTTCACAAGAGAAGGATCATTCCGTGTCACAAGTCCACTGAGCAAGCCGAAAGAGAGGAGATCATG
 AAACAGTTGCAAGATGCCAAGAAAGCTGAGACAGACAAGACAGTTGTTGGTCCATCAGTGGCTCCTGGCA
 AACTGCTCCATCCCCATCCTCTCCACCTCTCCACTCCGGATGGCACTGCATCTTCAGAGATGAACAA
 TCCCCATGCTATCCCACGCCGCATGCACCAATTGAACAGCTTGCCTCGTCAAGGCTCTTTCGGGGATT
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 CTATGCAGAGGAAGACCGATTTCCCAATAAAAAACACAGTGCCCGAGGTGGAAGGAGAGGCCGAGAGCAT
 CAGCTCCTTGTGTCCAGATCACCAGTGCCTCAGCACGCCCTCTGAGGACCCCTTCTCCTCCGCCCA
 ATGACCAAACAGTACATTGGTGGCACCACAGTCTCCTGTGTTACAAGCTAATGGCACTGACTCAGCCT
 CCCATGTGCTTACTGCTAAGCCAGCCAATACTGCTCTAGCACACGTAGCAATGCCTGTCGTGAAACCAA
 CCCTGGGCCATGTCCCTGATGCTGCTAACAAGGAAATTCAGCCATACATCCGGGACTGAGTGGGGT
 CAGTCTTCTGGTGTGCCTCTCCAGGTCTCTCCAGGCTGGTACAGACGCACTCCCTCTGAAGCTGACC
 GCTGGTTAGAAGAAGTGTCAAAGAGTGTGCGGGCCAGCAGCCTCAGGTCTCAGCTGCCCTCTGCAGCC
 AGTTCTCCAGCCCTCCGCCGCCGCTTGCCTCCAGCACCTCCTTTCCAAGGACATGCCTTCTC
 ACGTCCCAGCCTGTGCCGTGGGTGTGGTCCCACCCTACAACCAGCCTTGTCCCTACCCAGTCTTACC
 CTGTGGCCAACGGGATGCCCTACCAGCCTCTAATGTGCTGTAGTGGGCATACCCCATCCAGATGGT
 AGCCAATGTGTTGGCACTGCAGGCCACCCTCAGACAACCTCATCCACATCAGTCGCCAAGCCTGGCCAAG
 CAGCAGACATCCCTCAATATGAGACAAGTAGTGTACCACCAGTCCCTCTTTAAGCCTCTGCTCAGC
 ACCTCAATGGTTCTGCAGCTTCAATGGTGTAGACAATGGTGGGCTAGCCTCAGGAAACAGGCATGCAGA
 AGTCCCTCCAGGCACCTGCCAGTGGATCCTTTCGAAGCTCAGTGGGCCGCACTAGAAAGCAAGTCCAAG
 CAGCGTACAAATCCTTCTCTACCAACCCTTCTCCAGTACTTACAGAAAAATTTGAAATAGAAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

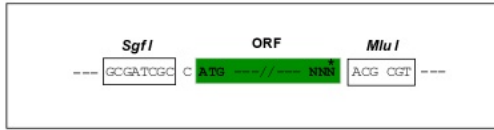
>MG225820 representing NM_001136075
 Red=Cloning site Green=Tags(s)

MNKLRSFRKKDYYVPEASRPHQWQTDDEEGVRTGKCSFPVKYLGHVEVDES RGMHICEDAVKRLKAERK
 FFKGFFGKTGKKAVKAVLWVSADGLRVVDEKTKDLIVDQTIKVSFCAPDRNFDRFYSYICRDGTTTRWI
 CHCFMAVKDTGERL SHAVGCAFAACLERKQKREKECGVTATFDASRTTFTREGSFRVTTATEQAEREIIM
 KQLQDAKKAETDKTVVGPSVAPGNTAPSPSSPTSPDPGTASSEMNPHAIIPRRHAPIEQLARQGSFRGF
 PALSQKMSPFKRQLSLRINELPSTMQRKTDFFPIKNTVPEVEGEAESISSLCSQITSAFSTPSEDPFSSAP
 MTKPVTLVAPQSPVLQANGTDSASHVLTAKPANTALAHVAMPVRETNPWAHVDPDAAANKEIAAIHPGTEWG
 QSSGAASPLGFQAGHRRTPSEADRWLEEVSKSVRAQQPVSAAPLQPVLPVPPPAIAPPAPPFQGHAF
 TSQPVPVGVVPLQPAFVPTQSYVPVANGMPYPASNVPVVGITPSQMVANVFGTAGHPQTTTHPHQSPSLAK
 QQTFPQYETSSATSPFFKPPAQLNLSAAFNGVDNGLASGNRHAIEVPPGTCVPDPFEAQWAALESKSK
 QRTNPSPTNPFSSDLQKTFEIEL

TRTRPLE – GFP Tag – V

Chromatograms: https://cdn.origene.com/chromatograms/ja1201_h05.zip
 Restriction Sites: SgfI-MluI
 Cloning Scheme:

Cloning sites used for ORF Shutting:



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                                Kozac
                                Consensus
                                Sgf I   Asc I
                                -----
EcoR I   BamH I Kpn I   RBS
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

Hind III  Nhe I  Rsr II  Mlu I   Not I   Xho I   GFP Tag
CAAGCTTAAGTACTAGTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC -----
                                     T  R  T  R  P  L  E  M  E  S  D  -  -  -

                                Pme I   Fse I
                                -----
---  ---  GAA  GAA  AGA  GTT  TAA  ACGGCCGGCCGCGGAGCT
-  -  -  E  E  R  V  Stop
  
```

ACCN: NM_001136075

ORF Size: 1959 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001136075.2](#), [NP_001129547.1](#)

RefSeq Size: 1962 bp

RefSeq ORF: 1962 bp

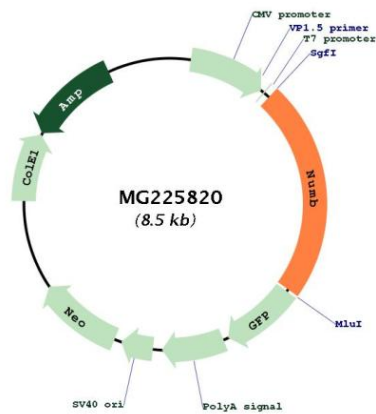
Locus ID: 18222

UniProt ID: [Q9QZS3](#)

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 MG225820