

## Product datasheet for **MG225927**

### **Numb (NM\_010949) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Numb (NM_010949) 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)



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**ORF Nucleotide Sequence:**

>MG225927 representing NM\_010949  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACAAACTACGGCAAAGCTTCAGGAGAAAGAACGCTTTATGTCCCAGAGGCCAGCCGTCCACATC  
 AGTGGCAGACAGATGAAGAAGGAGTCCGCACTGGAAAGTGTAGCTTCCCAGTTAAGTACCTCGGCCACGT  
 AGAAGTTGATGAGTCAAGAGGAATGCACATCTGTGAAGATGCCGTAAGAGATTGAAAGCTGAAAGGAAG  
 TTCTTCAAAGGCTTCTTTGGAAAAACGGGAAAGAAAGCAGTGAAGGCCGTTCTGTGGGTGTGAGCGGATG  
 GGCTCAGAGTTGTGGACGAGAAACTAAGGACCTCATAGTTGACCAGACAATAGAAAAAGTTTCTTCTG  
 TGCCCCAGATAGGAACCTTGACAGAGCCTTTTCTTACATATGTCGTGATGGCACCCTCGGCGATGGATC  
 TGTCAATTGTTTCAAGGATGCAAGACACGGGGAAAGACTGAGCCACGCCGTTGGCTGTGCTTTTGCAG  
 CCTGTTTAGAGCGTAACAGAAGCGGGAGAAGGAGTGTGGCGTCACTGCTACTTTTGTGCCAGTAGAAC  
 CACTTTCACAAGAGAAGGATCATTCCGTGTCACAACCTGCCACTGAGCAAGCCGAAAGAGAGGAGATCATG  
 AAACAGTTGCAAGATGCCAAGAAAGCTGAGACAGACAAGACAGTTGTTGGTCCATCAGTGGCTCCTGGCA  
 ACACTGCTCCATCCCCATCCTCTCCACCTCTCCCACTCCGGATGGCACTGCATCTTCAGAGATGAACAA  
 TCCCCATGCTATCCCACGCCGCATGCACCAATTGAACAGCTTGCTCGTCAAGGCTCTTTCCGGGATTT  
 CCTGCTCTTAGCCAGAAGATGTCACCCTTTAAACGCCAGCTGTCCCTACGCATCAATGAGTTGCCTTCCA  
 CTATGCAGAGGAAGACCGATTTCCCAATAAAAAACACAGTGCCCGAGGTGGAAGGAGAGGCCGAGAGCAT  
 CAGCTCCTTGTGTTCCAGATCACCAGTGCCTCAGCACGCCCTCTGAGGACCCCTTCTCCTCCGCCCA  
 ATGACCAAAACAGTGCATTGGTGGCACCACAGTCTCCTGTGTTACAAGGACTGAGTGGGTGAGTCTT  
 CTGGTGCCTCTCCAGTCTCTTCCAGGCTGGTCACAGACGCACTCCCTCTGAAGCTGACCGCTGGTT  
 AGAAGAAGTGTCAAAGAGTGTGGGGCCAGCAGCCTCAGGTCTCAGCTGCCCTCTGCAGCCAGTTCTC  
 CAGCCGCCTCCGCCCGCCGCTTGGCCCTCCAGCACCTCCTTTCCAAGGACATGCCTTCTCACGTCCC  
 AGCCTGTGCCGTGGGTGTGGTCCACCCCTACAACCAGCCTTTGTCCCTACCCAGTCTACCCTGTGGC  
 CAACGGGATGCCCTACCCAGCCTCTAATGTGCTGTAGTGGGCATCACCCCATCCAGATGGTAGCCAAT  
 GTGTTTGGCACTGCAGGCCACCCTCAGACAACCTCATCCACATCAGTCGCCAAGCCTGGCCAAGCAGCAGA  
 CATTCCCTCAATATGAGACAAGTAGTGTACCACCAGTCCCTTCTTAAGCCTCTGCTCAGCACCTCAA  
 TGGTCTCGACGCTTCAATGGTGTAGACAATGGTGGGCTAGCCTCAGGAAACAGGCATGCAGAAGTCCCT  
 CCAGGCACCTGCCAGTGGATCCTTTCGAAGCTCAGTGGGCCGCACTAGAAAGCAAGTCCAAGCAGCGTA  
 CAAATCCTTCTCTACCAACCCTTCTCCAGTGACTTACAGAAAACATTTGAAATAGAAGTT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG225927 representing NM\_010949  
 Red=Cloning site Green=Tags(s)

MNKLRSFRRKDVVPEASRPHQWQTDDEEVRTGKCSFPVKYLGHVEVDES RMHICEDAVKRLKAERK  
 FFKGFFGKTGKKAVKAVLWVSADGLRVVDEKTKDLIVDQTIKVSFCAPDRNFDRAFSYICRDGTTRRWI  
 CHCFMAVKDTGERL SHAVGCAFAA CLERKQKREKECGVTATFDASRTTFTREGSFRVTTATEQAEREIIM  
 KQLQDAKKAETDKTVVGPSVAPGNTAPSPSSPTSPTPDGTASSEMNP HAIIPRRHAPIEQ LARQGSFRGF  
 PALSQKMSPFKRQLSLRINELPSTMQRKTD FPIKNTVPEVEGEAESISSLCSQITSAFSTPSEDPFSSAP  
 MTKPVTLVAPQSPV LQTEWQSSGAASPLFQAGHRRTPSEADRWLEEVSKSVRAQQPQVSAAPLQPVL  
 QPPPPAAIAPPAPPFQGHAF L TSQPVPVGVVPLQPAFVPTQSYPVANGMPYPASNVPVVGITPSQMVAN  
 VFGTAGHPQTTHPHQSPSLAKQQTFPQYETSSATTS PPFKPPAQHLNGSAAFNGVDNGGLASGNRHA EVP  
 PGTCPVDPFEAQWAALESKSKQRTNPSPTNPFSSDLQKTFEIEL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_010949.2</a> , <a href="#">NP_035079.1</a>
<b>RefSeq Size:</b>	1815 bp
<b>RefSeq ORF:</b>	1815 bp
<b>Locus ID:</b>	18222
<b>UniProt ID:</b>	<a href="#">Q9QZS3</a>
<b>Cytogenetics:</b>	12 D1
<b>Gene Summary:</b>	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]