

## Product datasheet for **RG216230**

### **NUMB (NM\_003744) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NUMB (NM_003744) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NUMB
Synonyms:	C14orf41; c14_5527; S171
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216230 representing NM\_003744  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAACAAATTACGGCAAAGTTTTAGGAGAAAGAAGGATGTTTATGTTCCAGAGGCCAGTCTCCACATC  
 AGTGGCAGACAGATGAAGAAGGCGTTTCGCACCGGAAAATGTAGCTTCCCGTTAAGTACCTTGCCATGT  
 AGAAGTTGATGAATCAAGAGGAATGCACATCTGTGAAGATGCTGTAAAAAGATTGAAAGCTACTGGAAAG  
 AAAGCAGTTAAAGCAGTTCTGTGGTCTCAGCAGATGGACTCAGAGTTGTGGATGAAAAACTAAGGACC  
 TCATAGTTGACCAGACGATAGAGAAAGTTTCTTCTGTGCCCCAGACAGGAACTTTGATAGAGCCTTTTC  
 TTACATATGCCGTGATGGCACCCTCGTCGCTGGATCTGTCACTGCTTCATGGCTGTCAAGGACACAGGT  
 GAAAGGTTGAGCCATGCAGTAGGCTGTGCTTTTGCAGCCTGTTTAGAGCGCAAGCAGAAGCGGGAGAAGG  
 AATGTGGAGTGACTGCTACTTTTGTAGTGTAGTCGGACCCTTTTACAAGAGAAGGATCATTCCGTGTAC  
 AACAGCCACTGAACAAGCAGAAAGAGAGGAGATCATGAAACAAATGCAAGATGCCAAGAAAGCTGAAACA  
 GATAAGATAGTCGTTGGTTCATCAGTTGCCCTGGCAACTGCCCATCCCCATCCTCTCCACCTCTC  
 CTACTTCTGATGCCACGACCTCTCTGGAGATGAACAATCCTCATGCCATCCCACGCCGCGCATGCTCCAAT  
 TGAACAGCTTGCTCGCCAAGGCTCTTCCGAGGTTTTCTGCTCTTAGCCAGAAGATGTCACCCTTTAAA  
 CGCCAACATCCCTACGCATCAATGAGTTGCCTTCCACTATGCAGAGGAAGACTGATTTCCCATTTAAA  
 ATGCAGTGCCAGAAGTAGAAGGGGAGGCAGAGAGCATCAGCTCCCTGTGCTCACAGATCACCAATGCCTT  
 CAGCACACCTGAGGACCCCTTCTCATCTGCTCCGATGACCAACCAGTGACAGTGGTGGCACCACAATCT  
 CCTACCTCCAAGCTAATGGCACTGACTCAGCCTTCCATGTGCTTGCTAAGCCAGCCATACTGCTCTAG  
 CACCCGTAGCAAATGCCTGTGCGTGAACCAACCCTTGGGCCATGCCCTGATGCTGCTAACAAGGAAAT  
 TGCAGCCACATGTTCCGGGACCGAGTGGGGTCAATCTTCTGGTGTGCTCCTCCAGGTCTCTCCAGGCC  
 GGTCTAGACGTAATCCCTCTGAGGCGACCGATGGTTAGAAGAGGTGTCTAAGAGCGTCCGGGCTCAGC  
 AGCCCCAGGCCTCAGTCTCTCTGCAGCCAGTTCTCCAGCCTCCTCCACCCACTGCCATCTCCAGCC  
 AGCATCACCTTTCCAAGGAATGCATTCCTCACCTCTCAGCCTGTGCCAGTGGGTGTGGTCCCAGCCCTG  
 CAACCAGCCTTTGTCCCTGCCAGTCTATCCTGTGGCCAATGGAATGCCCTATCCAGCCCTAATGTGC  
 CTGTGGTGGGCATCACTCCCTCCAGATGGTGGCCAACGTATTTGGCACTGCAGGCCACCCTCAGGCTGC  
 CCATCCCCATCAGTACCAGCCTGGTCCAGGCAGCAGACATTCCCTCACTACGAGGCAAGCAGTGTACC  
 ACCAGTCCCTTTTAAGCCTCCTGCTCAGCACCTCAACGTTCTGCAGCTTTCAATGGTGTAGATGATG  
 GCAGGTTGGCCTCAGCAGACAGGCATACAGAGGTTCTACAGGCACCTGCCAGTGGATCCTTTTGAAGC  
 CAGTGGGCTGCATTAGAAAATAAGTCCAAGCAGCGTACTAATCCCTCCCTACCAACCCTTTCTCCAGT  
 GACTTACAGAAGACGTTTGAATTGAACTT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG216230 representing NM\_003744  
 Red=Cloning site Green=Tags(s)

MNKLRSFRKKDYYVPEASRPHQWQDEEGVRTGKCSFPVKYLGHVEVDES RGMHICEDAVKRLKATGK  
 KAVKAVLWVSADGLRVVDEKTKDLIVDQTIKVSFCAPDRNFDRAFSYICRDGTRRWICHCFMAVKDTG  
 ERLSHAVGCAFAACLERKQKREKECGVTATFDASRTTFTREGSFRVTTATEQAEREEIMKQMQDAKKAET  
 DKIVVGGSSVAPGNTAPSPSSPTSDATTSLEMNPHAIIPRRHAPIEQLARQGSFRGFPALSQKMSPFK  
 RQLSLRINELPSTMQRKTDFFPIKNAVPEVEGEAESISSLCSQITNAFSTPEDPFSSAPMTKPVTVVAPQS  
 PTFQANGTDSAFHVLAKPAHTALAPVAMPVRETNPWAHAPDAANKEIAATCSGTEWQSSGAASPLFQA  
 GHRRTPEADRWLEEVSKSVRAQQPQASAAPLQPVLQPPPPTAISQPASPFQGNFLTSPVPVGVVPPAL  
 QPAFVPAQSYPVANGMPYPAPNVPVVGITPSQMVANVFGTAGHPQAAHPHQSPSLVRQQTFFHYEASSAT  
 TSPFFKPPAQLNGSAAFNGVDDGRLASADRHTEVPTGTCPVDPFEAQWAALENKSKQRTNPSPTNPFSS  
 DLQKTFEIEL

**TRTRPLE** – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_003744

ORF Size: 1920 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\\_003744.5](#), [NP\\_003735.3](#)

RefSeq Size: 3614 bp

RefSeq ORF: 1923 bp

Locus ID: 8650

UniProt ID: [P49757](#)

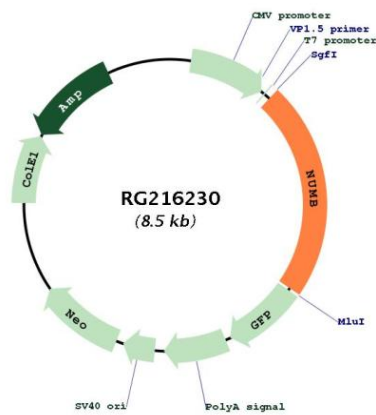
**Cytogenetics:** 14q24.2-q24.3

**Domains:** PID

**Protein Pathways:** Notch signaling pathway

**Gene Summary:** The protein encoded by this gene plays a role in the determination of cell fates during development. The encoded protein, whose degradation is induced in a proteasome-dependent manner by MDM2, is a membrane-bound protein that has been shown to associate with EPS15, LNX1, and NOTCH1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

**Product images:**



Circular map for RG216230