

Product datasheet for **RG238927**

NUMBL (NM_001289980) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUMBL (NM_001289980) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NUMBL
Synonyms:	CAG3A; CTG3a; NBL; NUMB-R; NUMBLIKE; NUMBR; TNRC23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238927 representing NM_001289980.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAACAAGTTACGGCAGAGCCTGCGGCGGAGGAAGCCAGCCTACGTGCCCGAGGCGTCGCGCCCGCAC
CAGTGGCAGGCAGACGAGGACCGGTGCGGAAGGGCACGTGCAGCTTCCCGGTCAAGTACCTGGGTAC
GTGGAGGTAGAGGAGTCCCGGGGAATGCACGTGTGTGAAGATGCGGTGAAGAAGCTGAAGCCGATGGGC
CGAAAGTCCGTGAAGTCTGTCCTGTGGGTGTCAGCCGATGGGCTCCGAGTGGTGGACGACAAAACCAAG
GATCTTCTGGTCGACCAGACCATCGAAAAGGTCTCCTTTTGTGCTCCTGACCGCAACCTGGACAAGGCT
TTCTCTATATCTGTCGTGACGGGACTACCCGCCGCTGGATCTGCCACTGTTTTCTGGCACTGAAGGAC
TCCGGCGAGAGGCTGAGCCACGCTGTGGGCTGTGCTTTTGCCGCCTGCCTGGAGCGAAAACAGCGACGG
GAGAAGGAATGTGGGTACGGCCGCTTCGATGCCAGCCGACCCAGCTTCGCCCGGAGGGCTCCTTC
CGCTGTCTGGGGTGGCGGCCCTGCTGAGCGAGAGGCCCGGACAAGAAGAAAGCAGAGGCAGCAGCT
GCCCCACTGTGGCTCCTGGCCCTGCCAGCCTGGGCACGTGTCCCGACACCAGCCACCACATCCCCT
GGTGAGAAAGGTGAGGCAGGCACCCCTGTGGCTGCAGGCACCAGTGCAGCCGCCATCCCCCGGCCCAT
GCACCCCTGGAGCAGCTGGTTCGCCAGGGCTCCTTCCGTGGGTTCCAGCACTAGCCAGAAGAAGCTCG
CCTTTCAAACGGCAGCTGAGCCTACGGCTGAATGAGCTGCCATCCACGCTGCAGCGCCGCACTGACTTC
CAGGTGAAGGGCAGATGCCTGAGATGGAGCCTCCTGGTCCCGGCGACAGTGACAGCATCAACGCTCTG
TGCACACAGATCAGTTTATCTTTTCCAGTGTGGAGCGCCAGCACCAGGGCCACCACCTGCCACAACA
GGGACTTCTGCTGGGGTGAACCTCCGTGCCCTGCAGCTGCCTTCCAGCCTGGGCACAAGCGGACA
CCTTCAGAGGCTGAGCGATGGCTGGAGGAGGTGTACAGGTGGCAAGGCCAGCAGCAGCAGCAGCAGC
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GTGTTCTGCCACCCCAACATGCAGCCCTTTTGTGCCCGCTACCCGGGCTTGGGCTACCCACCG
ATGCCCGGGTGCCTGGTGGGCATCACACCCTCACAGATGGTGGCAAACGCCTTCTGCTCAGCCGCC
CAGCTCCAGCCTCAGCCTGCCACTCTGCTTGGGAAAGCTGGGGCCTTCCCGCCCTGCCATACCCAGT
GCCCTGGGAGCCAGGCCGCCCTCGCCCAATGGGGCCCTGGCCCTGAGCCAGCGCTGCCCA
GCTCCAGATTGGACCCCTTTGAGGCCAGTGGCGGCATTAGAAGGCAAAGCCACTGTAGAGAAACCC
TCCAACCCCTTTCTGGCAGCTGCAAAAGACATTCGAGATTGAAGT
ACGGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG238927
 Blue=ORF Red=Cloning site Green=Tag(s)

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MNKLRQSLRRRKPAYVPEASRPHQWQADEDAVRKGTCSFPVRYLGHVEVEESRGMHVCEDAVKLKLKAMG
RKSVKSVLWVSADGLRVVDDKTKDLLVDQTIKVSFCAPDRNLDAF SYICRDGTTRRWICHCFALKD
SGERLSHAVGCAFAACLERKQRREKECGVTAAFDASRTSFAREGSFRLSGGGRPAEREAPDKKAEAAA
APTVPAGPAQPGHVSPTATTSPGKGEAGTPVAAGTTAAAIIPRRHAPLEQLVRQGSFRGFPALSQKNS
PFKRQLSLRLNELPSTLQRRDFQVKGTVPEMEPPGAGSDSINALCTQISSSFASAGAPAGPPPATT
GTSAWGEPVPPAAAFQPGHKRTPSEAERWLEEVSVAKAQQQQQQQQQQQQQQQAASVAVPPT
MPPALQFPAPVGPFDAAQAQVAVFLPPPHMQPPFVPAYPGLGYPPMPRPVVGITPSQMVANAFCSAA
QLQPQATLLGKAGAFPPAIPSAQARPRNGAPWPPEPAPAPAPELDPFEAQWAALEGKATVEKP
SNPFGDLQKTFEIEL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSDMHMFKSAIHPSILQNGGPMFA
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Restriction Sites:

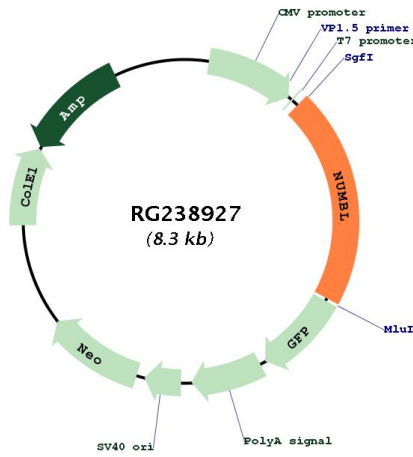
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001289980
 ORF Size: 1704 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).
RefSeq:	NM_001289980.2
RefSeq Size:	3367 bp
RefSeq ORF:	1707 bp
Locus ID:	9253
UniProt ID:	Q9Y6R0
Cytogenetics:	19q13.2
Protein Pathways:	Notch signaling pathway
MW:	61.3 kDa
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]