

Product datasheet for **RC238927**

NUMBL (NM_001289980) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUMBL (NM_001289980) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUMBL
Synonyms:	CAG3A; CTG3a; NBL; NUMB-R; NUMBLIKE; NUMBR; TNRC23
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238927 representing NM_001289980
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACAAGTTACGGCAGAGCCTGCGGCGGAGGAAGCCAGCCTACGTGCCCGAGGCGTCGCGCCCGCACC
 AGTGGCAGGCAGACGAGGACGCGGTGCGGAAGGGCACGTGCAGCTTCCCGTCAGGTACCTGGGTACGT
 GGAGGTAGAGGAGTCCCGGGAATGCACGTGTGTGAAGATGCGGTGAAGAAGCTGAAGGCGATGGGCCGA
 AAGTCCGTGAAGTCTGTCTGTGGGTGTGAGCCGATGGGCTCCGAGTGGTGGACGACAAAACCAAGGATC
 TTCTGGTCGACCAGACATCGAAAAGTCTCCTTTTGTGCTCCTGACCGCAACCTGGACAAGGCTTTCTC
 CTATATCTGTGTCGACGGGACTACCGCCGCTGGATCTGCCACTGTTTTCTGGCACTGAAGGACTCCGGC
 GAGAGGCTGAGCCACGCTGTGGGCTGTGCTTTTGGCCCTGCCTGGAGCGAAAACAGCGACGGGAGAAGG
 AATGTGGGGTACGGCCGCTTCGATGCCAGCCGACCAGCTTCGCCCGGAGGGCTCCTCCGCTGTC
 TGGGGTGGGCGCCTGTGAGCGAGAGCCCCGACAAGAAGAAGCAGAGGCAGCAGCTGCCCCACT
 GTGGCTCCTGGCCCTGCCAGCCTGGGCAGTGTCCCGACACCAGCCACCATCCCCTGGTGAGAAGG
 GTGAGGCAGGCACCCCTGTGGTGCAGGCACACTGCGGCGGCCATCCCCGGCGCCATGCACCCCTGGA
 GCAGCTGGTTCGCCAGGGCTCCTTCCGTGGGTTCCAGCACTCAGCCAGAAGAACTCGCCTTTAAACGG
 CAGCTGAGCCTACGGCTGAATGAGCTGCCATCCAGCTGCAGCGCCGCACTGACTTCCAGGTGAAGGGCA
 CAGTGCCTGAGATGGAGCCTCCTGGTCCGCGGCAGTGCACGATCAACGCTCTGTGCACACAGATCAG
 TTCATCTTTGCCAGTGTGGAGCGCCAGCACCAGGGCCACCCTGCCACAACAGGGACTTCTGCCTGG
 GGTGAGCCCTCCGTGCCCTGCAGTGCCTCCAGCCTGGGACAAGCGGACACCTTTCAGAGCTGAGC
 GATGGCTGGAGGAGGTGTACAGGTGGCCAAGGCCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCA
 GCAGCAGCAGCAACAGCAGCAAGCAGCCTCAGTGGCCCAAGTGCACCACATGCCTCCTGCCCTGCAG
 CCTTTCCCGCCCGTGGGCCCCCTTGTGACGCTGCACCTGCCAAGTGGCCGTGTTCTGCCACCCCCAC
 ACATGCAGCCCCCTTTTGTGCCCGCTACCGGGCTTGGGCTACCCACCGATGCCCGGGTGGCCGTGGT
 GGGCATCACACCCTCACAGATGGTGGCAAACGCCTTCTGCTCAGCCGCCAGCTCCAGCCTCAGCCTGCC
 ACTCTGCTGGGAAAGCTGGGGCCTTCCCGCCCCCTGCCATACCCAGTGCCCTGGGAGCCAGGCCCGCC
 CTCGCCCAATGGGGCCCCCTGGCCCCCTGAGCCAGCGCTGCCAGCTCCAGAGTTGGACCCCTTTGA
 GGCCAGTGGGCGCATTAGAAGGCAAAGCCACTGTAGAGAAACCCTCCAACCCCTTTCTGGCGACCTG
 CAAAAGACATTCGAGATTGAAGT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC238927 representing NM_001289980
 Red=Cloning site Green=Tags(s)

MNKLRSQSLRRRKPAYVPEASRPHQWQADEDAVRKGTCSFPVRYLGHVEVEESRGMHVCEDAVKLKKAMGR
 KSVKSVLWYSADGLRVVDDKTKDLLVDQTIKVSFCAPDRNLKAFSYICRDGTRRWICHFLALKDSG
 ERLSHAVGCAFAACLERKQRREKECGVTAADFASRTSFAREGSFRLSGGGRPAEREAADKKAEEAAAPT
 VAPGPAQPGHVSPATTSPGEGEAGTPVAAGTTAAAIPIRRHAPLEQLVRQGSFRGFPALSQKNPFKR
 QLSLRLNELPSTLQRRDFQVKGTVPEMEPPGAGSDSINALCTQISSSFASAGAPAGPPPATTGTSAW
 GEPSVPPAAAFQPGHKRTPSEAERWLEEVSVAKAQQQQQQQQQQQQQQQAASVAPVPTMPPALQ
 PFPAPVGFDAAPAQVAVFLPPPHMQPPFVPAYPGLGYPPMPRPVVGITPSQMVANAFCSAAQLQPQA
 TLLGKAGAFPPPAIPSAFGSARPRPNGAPWPPEPAPAPAPELDPFEAQWAALEGKATVEKPSNPFSGDL
 QKTFEIEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

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:	<ol style="list-style-type: none">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_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]