

Product datasheet for **MC229217**

Rubcn (NM_001200038) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rubcn (NM_001200038) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rubcn
Synonyms:	1700021K19Rik; 5330403K09; Kiaa0226; mKIAA0226; Rubicon
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF:

>MC229217 representing NM_001200038

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCGTCCGGAGGGCGCGGAATGGATCTTGGCGCGCGCATGGGAGCGTCTGCTAGAGAAGAGCAGGA
GGGAGCACTGGCAGCTGCTGGGTAAATTTGAAGACGACTGTGGAAGTTTGGTGTAGCACTGCCCCAA
TGCTGTGTCGAAGTATGGTGGCCTGGAGCGGCTGTGCAGGGACATGCAGAACATCCTGTATCATGGGCTC
ATCCATGACCAGGTGTGTTGCCGCCAGGCTGATTACTGGCAGTTTGTGAAAGACATTCGGTGGCTCAGCC
CGCACTCAGCCCTTACGTGGAGAAGTTCATCAGTTTGCATGAGAGCGACCAGAGCGACTGACAGCGT
GAGTGAGCGTGTGTTGCAGAGCTGTGGCTGCAGCATAGCCTGCAGTGCCACTGCCTCTCAGCCCAGCTC
CGGCTCTGCTCGGGACAGACAGTACATCAGAAAATTCTACACAGAACTGCCTTCTGCTGAGTGACG
CCCAGTACAGCCATGCTCCAGTGCCTGGAAGCAGTGAACAGAACACCCCGTCTTCTGGCTCAGAT
CGATGCATCCATGTTTCCAGAAAGCAGGAGAGCCCGTCTGGTCAAAAGAGCCAGAGTCTGACCGCT
CTGCTGTGTTCCACATACACCCCTCCAGCTAGCTATGCTCAGCATTCTACTTTGGTCCCTCCAGCC
TTCAGTCTATGCCACAGTCCAGCCACAGCTCAGAGAGAAGATCTACTTCTTTTCACTCTCTGGCCCTT
CTGGCAACCTCAAGAAGACAGAGAATGCCTCTCACCAGCAGAGACTCAAACCACCCAGCTCCGCTGCCT
TCAGACTCTACTTAGCCAGGATTCCTCCACTGACAGCACAGGAGATGAGCGACAGCACTCTGACTAGCC
CCCTAGAGGCATCCTGGTCCAGCAGCCAGAATGACTCCCCAAGTGTGTCAGTGAGGGGCCGAGTACCT
GGCCATTGGCAACCCAGCCCTCATGGCCGACTGCCAGTTGTGAGAGTACAGCAGCAACGGCGAGAGC
AGCAGTCTCACTTGTCTCTCCAGCAGCTCTCAAAGCTGGAGTCTGCTGCCTTCTCTAGGGGACC
AAGAGGAAGGCAGGCAGAGTCAAGCAGGACGCTCCTTCGAGGTCAGCTTCTCAGAAGGCAGACAGC
CCCTGTGCCAGCGGGACAAAGAAGAGCCATATTCGCTCCCACTCGGACACCAACATTGCCTCCAGAGGA
GCCGAGGAGGCCAGGAATATCACCATTATAGTTGAAGATCCCATTCAGAGGGTGGTCACTACCTCT
GCTCAGGAGAAGGCATGTTTAGAAGACCATCAGAAGGACAGTCCCTCATCAGTTACCTCTCTGAGCAAGA
CTTTGGCAGCTGTGCAGACCTGAAAAGGAAAACGCCACTTCAGCATCTCCGAGTCTTATTGATCGCCG
ATTGAGCTGATGAAGTCAACATGATGAGCCAGTGTCTAGAAGAGGAGGAAGTAGAGGAGGAAGATAGTG
ACCGAGAGATCCAGGAAGTGAAGCAGAAGATCCGCCTTCGGCGCCAGCAGATCCGCACAAAAACCTGCT
CCCTGCGTACCGGAGACTGAGAATGGAAGCTTCGGGTACCTCCAGCAGCTCCAGTTCAAGTTCAGGG
GATTCGACGCAGCTCTCTGAGTCCGGCTCTGCTGAGGATGCTGACGACTTGAAAATCCAAGACGCTGACA
TCCGGAGGAGTGCAGTCTCAAACGGCAAATCATCTTCTCCAGAAATCTCTCGCACTGCTTCTGCACTC
CACATCGGCTGAGGCAGTGGCCATGGGGCTTCTGAAGCAGTTTGAAGGGATGCAGCTTCCAGCTGCCTCG
GAGCTCGAGTGGCTAGTCCCAGAGCATGATGCTCCACAGAAGCTCCTACCCATCCCCGACTCCCTGCCCA
TCTCACCAGATGACGGGCAGCAGCGGACATCTACAAGCTGCGAATCCGCGTCCGTGGCAACCTGGAGTG
GGCTCCGCCCCGGCCGAGATCATTTTTAATGTTTCATCCAGCCCCACGAGGAAGATTGCCGTGGCCAAG
CAGAATTACCGCTGTGCGGGATGTGGCATCCGGACGACCCCGACTATATCAAGCGGTGCGGTACTGTG
AGTACCTAGGCAAGTACTTCTGCCAGTGTGCCACGAGAACGCCAGATGGTCTGCCAGCCGCAATTCT
GCGCAAATGGGACTTCAGCAAGTACTATGTCAGCAACTTCTCAAGGACCTGCTCCTGAAGATCTGGAAT
GATCCTCTCTTAATGTGCAGGACATCAATAGCGCACTTACAGGAAGGTCAAGTGTCTTAACCAAGTCC
GGCTGCTGCGGGTTCAGCTGTACCACATGAAGAACATGTTTAAGACATGCCGACTGGCCAAGAGCTCCT
GGATTCTTTGACGTGGTTCAGGCCACCTGACAGAGGACCTCCATCTGTACTCGTGTGAGTGACCTGACT
GCAACCAAGAAGGGAGAAGTGGGCCCCGGCTGGCGGAGCTCACTAGAGCGGGAGCCGCCACGTGGAGA
GATGCATGCTGTGTAGGCCAAGGGCTTCTGTGAATTCTGTGAGAATGAGGAGGATGTCATCTTTCC
TTTTGAGTGCATAAGTCCGGACTTGTGAAGAGTGTAAAGCGTGTACCATAAACTTGCTTCAAGTCT
GGACGCTGCCCGGTGTGAGCGGCTGCAGGCCGACGGAGCTGCTGGCAAGCAGAGCCTGGAGTCT
ACCTGTCTGACTATGAGGAGGAGCCACAGAAGCCTTGGCTCTAGAGGCCACCGTCTAGAGACCACCTG
A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001200038
Insert Size:	2871 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001200038.1</u> , <u>NP_001186967.1</u>
RefSeq Size:	5361 bp
RefSeq ORF:	2871 bp
Locus ID:	100502698
UniProt ID:	<u>Q80U62</u>
Cytogenetics:	16 B3
Gene Summary:	<p>Inhibits PIK3C3 activity; under basal conditions negatively regulates PI3K complex II (PI3KC3-C2) function in autophagy. Negatively regulates endosome maturation and degradative endocytic trafficking and impairs autophagosome maturation process (PubMed:19270693). Can sequester UVRAG from association with a class C Vps complex (possibly the HOPS complex) and negatively regulates Rab7 activation (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>