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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC229217 representing NM_001200038
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGTCCGGAGGGCGCGGGAATGGATCTTGGCGGCGGCGATGGGGAGCGTCTGCTAGAGAAGAGCAGGA
GGGAGCACTGGCAGCTGCTGGGTAATTTGAAGACGACTGTGGAAGGTTTGGTGTCAGCCAACTGCCCCAA
TGTCTGGTCCAAGTATGGTGGCCTGGAGCGGCTGTGCAGGGACATGCAGAACATCCTGTATCATGGGCTC
ATCCATGACCAGGTGTGTTGCCGCCAGGCTGATTACTGGCAGTTTGTGAAAGACATTCGGTGGCTCAGCC
CGCACTCAGCCCTTCACGTGGAGAAGTTCATCAGTTTGCATGAGAGCGACCAGAGCGACACTGACAGCGT
GAGTGAGCGTGCTGTTGCAGAGCTGTGGCTGCAGCATAGCCTGCAGTGCCACTGCCTCTCAGCCCAGCTC
CGGCCTCTGCTCGGGGACAGACAGTACATCAGAAAATTCTACACAGAAACTGCCTTCCTGCTGAGTGACG
CCCACGTCACAGCCATGCTCCAGTGCCTGGAAGCAGTGGAACAGAACAACCCCCGTCTTCTGGCTCAGAT
CGATGCATCCATGTTTGCCAGAAAGCAGGAGAGCCCGCTGCTGGTCACAAAGAGCCAGAGTCTGACCGCT
CTGCCTGGTTCCACATACACCCCTCCAGCTAGCTATGCTCAGCATTCCTACTTTGGGTCCTCCTCCAGCC
TTCAGTCTATGCCACAGTCCAGCCACAGCTCAGAGAGAAGATCTACTTCCTTTTCACTCTCTGGCCCTTC
CTGGCAACCTCAAGAAGACAGAGAATGCCTCTCACCAGCAGAGACTCAAACCACCCCAGCTCCGCTGCCT
TCAGACTCTACTCTAGCCCAGGATTCCCCACTGACAGCACAGGAGATGAGCGACAGCACTCTGACTAGCC
CCCTAGAGGCATCCTGGGTCAGCAGCCAGAATGACTCCCCAAGTGATGTCAGTGAGGGGCCCGAGTACCT
GGCCATTGGCAACCCAGCCCCTCATGGCCGGACTGCCAGTTGTGAGAGTCACAGCAGCAACGGCGAGAGC
AGCAGCTCTCACTTGTTCTCCTCCAGCAGCTCTCAAAAGCTGGAGTCTGCTGCCTCTTCTCTAGGGGACC
AAGAGGAAGGCAGGCAGAGTCAGGCAGGCAGCGTCCTTCGCAGGTCCAGCTTCTCAGAAGGGCAGACAGC
CCCTGTCGCCAGCGGGACAAAGAAGAGCCATATTCGCTCCCACTCGGACACCAACATTGCCTCCAGAGGA
GCCGCAGGAGGCCCCAGGAATATCACCATTATAGTTGAAGATCCCATTGCAGAGGGTGGTCAGTACCTCT
GCTCAGGAGAAGGCATGTTTAGAAGACCATCAGAAGGACAGTCCCTCATCAGTTACCTCTCTGAGCAAGA
CTTTGGCAGCTGTGCAGACCTGGAAAAGGAAAACGCCCACTTCAGCATCTCCGAGTCCTTGATTGCCGCC
ATTGAGCTGATGAAGTGCAACATGATGAGCCAGTGTCTAGAAGAGGAGGAAGTAGAGGAGGAAGATAGTG
ACCGAGAGATCCAGGAACTGAAGCAGAAGATCCGCCTTCGGCGCCAGCAGATCCGCACCAAAAACCTGCT
CCCTGCGTACCGGGAGACTGAGAATGGAAGCTTCCGGGTCACCTCCAGCAGCTCCCAGTTCAGTTCACGG
GATTCGACGCAGCTCTCTGAGTCCGGCTCTGCTGAGGATGCTGACGACTTGGAAATCCAAGACGCTGACA
TCCGGAGGAGTGCAGTCTCAAACGGCAAATCATCCTTCTCCCAGAATCTCTCGCACTGCTTCCTGCACTC
CACATCGGCTGAGGCAGTGGCCATGGGGCTTCTGAAGCAGTTTGAGGGGATGCAGCTTCCAGCTGCCTCG
GAGCTCGAGTGGCTAGTCCCAGAGCATGATGCTCCACAGAAGCTCCTACCCATCCCCGACTCCCTGCCCA
TCTCACCAGATGACGGGCAGCACGCGGACATCTACAAGCTGCGAATCCGCGTCCGTGGCAACCTGGAGTG
GGCTCCGCCCCGGCCGCAGATCATTTTTAATGTTCATCCAGCCCCCACGAGGAAGATTGCCGTGGCCAAG
CAGAATTACCGCTGTGCGGGATGTGGCATCCGGACGGACCCCGACTATATCAAGCGGCTGCGGTACTGTG
AGTACCTAGGCAAGTACTTCTGCCAGTGCTGCCACGAGAACGCCCAGATGGTCGTCCCCAGCCGCATTCT
GCGCAAATGGGACTTCAGCAAGTACTATGTCAGCAACTTCTCCAAGGACCTGCTCCTGAAGATCTGGAAT
GATCCTCTCTTCAATGTGCAGGACATCAATAGCGCACTCTACAGGAAGGTCAAGCTGCTTAACCAAGTCC
GGCTGCTGCGGGTTCAGCTGTACCACATGAAGAACATGTTTAAGACATGCCGACTGGCCAAAGAGCTCCT
GGATTCCTTTGACGTGGTTCCAGGCCACCTGACAGAGGACCTCCATCTGTACTCGCTGAGTGACCTGACT
GCAACCAAGAAGGGAGAACTGGGGCCCCGGCTGGCGGAGCTCACTAGAGCGGGAGCCGCCCACGTGGAGA
GATGCATGCTGTGTCAGGCCAAGGGCTTCATCTGTGAATTCTGTCAGAATGAGGAGGATGTCATCTTTCC
TTTTGAGCTGCATAAGTGCCGGACTTGTGAAGAGTGTAAAGCGTGTTACCATAAAACTTGCTTCAAGTCT
GGACGCTGCCCCCGGTGTGAGCGGCTGCAGGCCCGACGGGAGCTGCTGGCCAAGCAGAGCCTGGAGTCCT
ACCTGTCTGACTATGAGGAGGAGCCCACAGAAGCCTTGGCTCTAGAGGCCACCGTCCTAGAGACCACCTG
A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
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:	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_001200038.1, NP_001186967.1
RefSeq Size:	5361 bp
RefSeq ORF:	2871 bp
Locus ID:	100502698
UniProt ID:	Q80U62
Cytogenetics:	16 B3
Gene Summary:	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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).

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