

Product datasheet for **SC122508**

Rubicon (RUBCN) (BC033615) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rubicon (RUBCN) (BC033615) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rubicon
Synonyms:	KIAA0226; RUBICON; SCAR15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC033615 edited
 GGCCGGGATAGAAGCCGACGCCAGCCAGCGCGGTCCCTCCCCTGTGCGCCGCCGGGTGTA
 GCGCATACCCGGAGCCACCGGCCGAGGTGCCTCCTCCGGCCCCAGGGGGCCCCGGGA
 GCCCTGAAGGGCGAAGCGGCAGGGACGCCTCTCTTGGGCGAAGAGGGCGCCTCACCGCCC
 CGGATGCGGCCGAGGGCGCGGGAATGGAGCTCGGAGGCGGCGAGGAGCGCCTGCCTGAG
 GAGAGCAGGAGGGAGCACTGGCAGTTGCTGGTAATTTGAAGACGACGGTGGAGGTTTG
 GTATCAACCAACAGCCCCAACGTCTGGTCTAAGTATGGTGGCTTGGAGCGGCTTTGCAGG
 GACATGCAGAGCATCCTCTATCACGGGCTTATCCGTGACCAGGCGTGCCGCCAGACG
 GATTACTGGCAGTTCGTGAAAGACATCCGGTGGCTCAGTCCCCACTCAGCCCTTACAGTG
 GAGAAGTTCATCAGCGTGCACGAGAACGACCAGAGCAGTGTGATGGTGCAGTGAACGT
 GCTGTTGCCGAGCTGTGGCTGCAGCACAGCCTGCAGTACCACTGCCTCTCAGCCAGCTC
 CGGCCCTGCTCGGGATAGACAGTATATCAGAAAATTCTACACAGATGCTGCCTTCTG
 CTAAGTGACGCTCATGTCACGGCCATGCTGCAGTGCCTGGAAGCAGTGGAACAGAACAA
 CCCCCCTCCTGGCTCAGATCGATGCGTCCATGTTTGCCAGAAAGCACGAGAGCCCGCTC
 CTGGTGACAAAGAGCCAGAGCCTGACAGCCCTGCCAGTTCACATACACCCCTCCAAC
 AGCTATGCTCAGCATTCCTACTTTGGGTCTTCTTAGCCTCCACCAATCCGTGCCAAC
 AATGGCTCAGAGAGAAGATCTACTTCTTTCCACTCTCTGGCCCTCCCCGGAAACCTCAA
 GAAAGCAGAGGGCACGTCTCACCAGCAGAGGATCAAACCATCCAAGCCCCCAGTTTCA
 GTCTCTGCACTAGCCAGGGATTCCCCTTTGACCCCAAATGAAATGAGCTCCAGTACTCTG
 ACCAGCCCCATAGAGGCATCCTGGGTGACGAGCCAGAATGATTCCCAGGTGATGCCAGT
 GAGGGGCTGAGTACCTGGCCATTGGCACTTGGACCCCGAGGGCGGACTGCCAGCTGT
 CAGAGTACAGCAGCAATGCCGAGAGCAGCAGTCCAATTTGTTCTCTCCAGCAGCTCC
 CAGAAGCCAGATTCTGCTGCCTTCTTCTAGGGGACCAGGAAGGAGGTGGGGAGAGCCAG
 CTGTCCAGTGTCTCCGACAGTCCAGCTTCTCAGAGGGGACAGACTCACTGTACCCAGT
 GGGCAAAGAAAAGCCACATTCCGCTCCCATTCGATACAGCATTGCCTCCAGGGGAGCT
 CCAGGTAATGAGGAACACCGGCTGCTAGTTAGCAAGATGACCCTGAATTGAGAGTAAGAG
 AGGGCTTGTTATGGGGACTTTTCAGGTGGCAGAAAAGAGATGTTCTGTTTCTGGTATACA
 ACATCTTATTTTGAATGAAAGAAGTTTATAACGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAA
 AAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC033615 unedited
 NGGTGAACCGTTCAGNAAATTTGTNAATACGNACTNCACTNANAGGGNCGCCGCGNA
 ATCCCGGGATGGCCGGGATAGAAGCCGACGCCAGGCGCGGTCCCTCCCGCTGTCGCC
 GCCCGGTGTAGCGCATACCCGGAGCCACCGGCCGAGGTGCCTCCTCCGGCCCCAGG
 GGGCCCCGGGAGCCCTGAAGGGCGAAGCGGCAGGGACGCCTCTCTTGGGCGAAGAGGCG
 CCTCACCGCCCGGATGCGGCCGAGGGCGGGGAATGGAGCTCGGAGGCGGCGAGGAGC
 GCCTGCCTGAGGAGAGCAGGAGGGAGCACTGGCAGTTGCTGGTAATTTGAAGACGACGG
 TGGAGGGTTTGGTATCAACCAACAGCCCCAACGTCTGGTCTAAGTATGGTGGCTTGGAGC
 GGCTTTCAGGGACATGCAGAGCATCCTCTATCACGGGCTTATCCGTGACCAGGCGTGCC
 GCCGCCAGACGGATTACTGGCAGTTCGTGAAAGACATCCGGTGGCTCAGTCCCCACTCAG
 CCCTTACGTGGAGAAGTTTCATCAGCGTGCACGAGAACGACCAGAGCAGTGTGATGGTG
 CCAGTGAACGTGCTGTTGCCGAGCTGTGGCTGCAGCACAGCCTGCAGTACCACTGCCTCT
 CAGCCCAGCTCCGGCCCTGCTTCGGGATAGACAGTATATCAGAAAATTCTACACAGATG
 CTGCCTTCTGCTAAGTGACGCTTCATGTCAACGCCATGCTTGCATGCCTGGGAGCATTG
 GAAACAGACAACCCCGCTCCGGGCTAAAATCAATGCTCCCATGTTGCCAAAAAGCCC
 GAGAGCCTGCTCCTGGTAACAAAAGCCGAGCCGACAGTCTGCCAGTTTCCATT

Restriction Sites: Please inquire
ACCN: BC033615
Insert Size: 1730 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).
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:	BC033615.1 , AAH33615.1
RefSeq Size:	1730 bp
Locus ID:	9711
Cytogenetics:	3q29
Gene Summary:	The protein encoded by this gene is a negative regulator of autophagy and endocytic trafficking and controls endosome maturation. This protein contains two conserved domains, an N-terminal RUN domain and a C-terminal DUF4206 domain. The RUN domain is involved in Ras-like GTPase signaling, and the DUF4206 domain contains a diacylglycerol (DAG) binding-like motif. Mutation in this gene results in deletion of the DAG binding-like motif and causes a recessive ataxia. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Apr 2014]