

## Product datasheet for **SC316580**

### Rubicon (RUBCN) (NM\_014687) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rubicon (RUBCN) (NM_014687) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rubicon
Synonyms:	KIAA0226; RUBICON; SCAR15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC316580 representing NM\_014687.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_014687
<b>Insert Size:</b>	2919 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_014687.2</a></u>
<b>RefSeq Size:</b>	6762 bp
<b>RefSeq ORF:</b>	2919 bp
<b>Locus ID:</b>	9711
<b>UniProt ID:</b>	<u><a href="#">Q92622</a></u>
<b>Cytogenetics:</b>	3q29
<b>MW:</b>	108.6 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) represents a shorter transcript, but encodes the longer isoform (2).</p>