

## Product datasheet for **SC313704**

### ATG14L (ATG14) (NM\_014924) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATG14L (ATG14) (NM_014924) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATG14
Synonyms:	ATG14L; BARKOR; KIAA0831
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014924, the custom clone sequence may differ by one or more nucleotides ATGGCGTCTCCCAGTGGGAAGGGAGCCCGGGCGCTGGAGGCTCCTGGCTGCGGGCCCGG CCGCTCGCCCGGACCTGGTGGACTCCGTGGACGATGCGGAGGGGCTGTACGTGGCTGTG GAGCGTGCCTCGTGTGCAACACTACCCGCCGGCGGCTGACCTGCGCCAAATGCGTTCAG AGCGGCGATTTTCGTCTACTTCGACGGCCGCGACCCGGGAGAGGTTTATCGACAAGAAGGAA AGGTTAAGCCGACTTAAGAGCAAGCAAGAAGAATTTAGAAAAGAGTGTAAAAGCTATG GAAGGAAAATGGATAACAGATCAGTTGAGATGGAAAATAATGTCCTGCAAGATGAGGATT GAACAGTTAAAACAAACAATATGTAAGGAAAATGAAGAAAATGGAGAAAAATCTGAAGGC CTTCTCAAACCAAGGAAAAGAATCAGAAGCTTTACAGTCGAGCACAACGGCACCAAGAG AAAAAGGAGAAGATTCAGAGGCATAATCGCAAACCTGGTGACCTGGTAGAAAAAAGACC ATTGACTTAAGAAGTCATTATGAGCGTCTGGCAAATCTTCGACGATCCCATATATTAGAG CTCACCTCTGTCAATTTTCCAATCGAGGAAGTAAAGACGGGTGTGAGAGACCCCGCAGAT GTGCTTCAGAGAGTGACAGTGCCATGACCTCCAGCACTGTGAGCAAGCTTGCTGAAGCC CGGAGGACAACCTACCTCTCAGGACGATGGGTCTGTGACGATCACAACGGAGACACCAGC ATTAGCATTACAGGGCCTTGATTAGCTCCCTAACAAATGGGGACTACTCTGCCTACTAC AGCTGGGTGGAGGAGAAGAAAACAACCCAGGGCCCTGACATGGAGCAGAGTAACCCTGCC TACACCATCAGTGCTGCGCTGTGCTATGCAACTCAGCTGGTCAACATTCTGTCTCATATA CTTGATGTAATCTTCCAAAAAGCTCTGCAACAGTGAATTTTGTGGCGAAAATCTAAGC AAGCAGAAATTTACTCGAGCAGTGAAGAACTGAATGCAAATATTCTTTACCTTTGTTTT TCTCAGCATGTAATTTAGATCAATTACAACCACTGCATACCCTCAGGAATCTAATGTAC CTGGTCAGTCCAAGCTCTGAACACCTAGGCAGGTGAGGGCCCTTTGAAGTACGAGCAGAC CTTGAGGAGTCCATGGAATTTGTGGATCCCGGAGTTGCTGGAGAATCAGATGAGAGCGGA GATGAGCGGTCAGCGATGAAGAAACCGACCTGGGCACAGACTGGGAGAAGCTGCCTAGT CCCCGGTTTTGTGATATCCCTTCCAGTCTGTGGAAGTCTCCAGAGTCAGAGCACCCAG GGTCCCCACCCATCGCGAGCAGCAGTGCAGGTGGGATGATCTCCTCTGCAGCAGCTCG GTGACCTCTGGTTTAAAGCTTACACTGGACACCGT
Restriction Sites:	Please inquire
ACCN:	NM_014924



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<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>	<a href="#">NM_014924.3</a> , <a href="#">NP_055739.2</a>
<b>RefSeq Size:</b>	4742 bp
<b>RefSeq ORF:</b>	1479 bp
<b>Locus ID:</b>	22863
<b>UniProt ID:</b>	<a href="#">Q6ZNE5</a>
<b>Cytogenetics:</b>	14q22.3
<b>Gene Summary:</b>	Required for both basal and inducible autophagy. Determines the localization of the autophagy-specific PI3-kinase complex PI3KC3-C1 (PubMed:18843052, PubMed:19050071). Plays a role in autophagosome formation and MAP1LC3/LC3 conjugation to phosphatidylethanolamine (PubMed:19270696, PubMed:20713597). Promotes BECN1 translocation from the trans-Golgi network to autophagosomes (PubMed:20713597). Enhances PIK3C3 activity in a BECN1-dependent manner. Essential for the autophagy-dependent phosphorylation of BECN1 (PubMed:23878393). Stimulates the phosphorylation of BECN1, but suppresses the phosphorylation PIK3C3 by AMPK (PubMed:23878393). Binds to STX17-SNAP29 binary t-SNARE complex on autophagosomes and primes it for VAMP8 interaction to promote autophagosome-endolysosome fusion (PubMed:25686604). Modulates the hepatic lipid metabolism (By similarity).[UniProtKB/Swiss-Prot Function]