

## Product datasheet for **SC310248**

### ASC1 (TRIP4) (NM\_016213) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASC1 (TRIP4) (NM_016213) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASC1
Synonyms:	ASC-1; ASC1; HsT17391; MDCDC; SMABF1; ZC2HC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC310248 representing NM\_016213.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGTGGCTGGGGCGGTGTCCGGGGAGCCGCTGGTGCACCCAGCAGTTGCGGAAGACT
TTCCGCCCTGGATGTCAGCGAGGAGATCATTCACTAGCTTTTGTCAATTGAGAGTGTGAAGAGATACGA
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AAATGGCAAAAAGATGATCAGGAGTTGATTTCCGATCCTTTGCAGCAGTCTTCAAAAAAGATGAAATT
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CCTGCATTTACTGAACCTGACACGACTGCAGAGGTTAAAACACCTTTTGATTTGGCCAAGGCACAAGAG
AACAGCAACTCCGTAAAGAAGAAGACAAAGTTTGTCAATTTATACACAAGAGAGGGACAGGACAGGCTT
GCAGTCTGCTCCCTGGTCGTCACCCTTGATTCCTGGGCCAGAAGCACAAGCTCATCAATAACTGT
CTGATCTGTGGGCGATTGTCTGTGAACAAGAAGGCTCAGGCCCTTGCTTATTCTGTGGCACTCTGGTG
TGTACTCATGAGGAACAAGATATTTTACAGCGTACTCAAACAAGAGCCAGAACTGCTAAAGAACTC
ATGTCAGGAGTGGAGAATTCGGAAGGTGGACATCTCTACCAAGGACCTTCTTCCATCAAGAATTG
CGAATTAAGTCTGGTCTGGAGAAGGCTATCAAGCATAAAGACAAACTGTTAGAGTTTGACAGAAGTACT
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AACTTGAGCGGGAAACCTTGAGAAGCGAGAGGAGCTGAGAGAAGTTCGACACGCCTCTCGACTT
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AAGCAGAATAAAGCTGTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_016213
- Insert Size:** 1746 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:** 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.
- 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).

<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_016213.4</a>
<b>RefSeq Size:</b>	2057 bp
<b>RefSeq ORF:</b>	1746 bp
<b>Locus ID:</b>	9325
<b>UniProt ID:</b>	<a href="#">Q15650</a>
<b>Cytogenetics:</b>	15q22.31
<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>MW:</b>	66.1 kDa
<b>Gene Summary:</b>	<p>This gene encodes a subunit of the tetrameric nuclear activating signal cointegrator 1 (ASC-1) complex, which associates with transcriptional coactivators, nuclear receptors and basal transcription factors to facilitate nuclear receptors-mediated transcription. This protein is localized in the nucleus and contains an E1A-type zinc finger domain, which mediates interaction with transcriptional coactivators and ligand-bound nuclear receptors, such as thyroid hormone receptor and retinoid X receptor alpha, but not glucocorticoid receptor. Mutations in this gene are associated with spinal muscular atrophy with congenital bone fractures-1 (SMABF1). [provided by RefSeq, Apr 2016]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>