

Product datasheet for **RC201863**

ASC1 (TRIP4) (NM_016213) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ASC1 (TRIP4) (NM_016213) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| 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) |



[View online »](#)

ORF Nucleotide Sequence:

>RC201863 representing NM_016213
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGTGGCTGGGGCGGTGTCCGGGGAGCCGCTGGTGCACCCAGCAGTTGCGGAAGACTT
 TCGGCCTGGATGTCAGCGAGGAGATCATTCACTACGTTTTGTCAATTGAGAGTGCTGAAGAGATACGAGA
 ATATGTTACTGATCTCCTCCAGGAAATGAAGGCAAAAAAGTCAATTCATAGAAGAACTTATAACCAAA
 TGGCAAAAGAATGATCAGGAGTTGATTTTCGGATCCTTTGCAGCAGTGCTTCAAAAAAGTAAATTTAG
 ATGGGCAGAAATCAGGCGACCATCTAAAGCGGGTAGGAAGAAAGGGAGAAACAGACAGGAAGTTCTGC
 ATTTACTGAACCTGACACGACTGCAGAGGTTAAAAACCTTTTGTATTTGGCCAAGGCACAAGAGAACAGC
 AACTCCGTAAGAAGAAGACAAAGTTTGTCAATTTATACACAAGAGAGGGACAGGACAGGCTTGCAGTCC
 TGCTCCCTGGTCGTACCCTTGTGATTGCCTGGCCAGAAGCACAAGCTCATCAATAACTGTCTGATCTG
 TGGGCGCATTGTCTGTGAACAAGAAGGCTCAGGCCCTTGTATTCTGTGGCACTCTGGTGTACTCAT
 GAGGAACAAGATATTTTACAGCGTGACTCAAACAAGAGCCAGAACTGCTAAAGAAACTCATGTCAGGAG
 TGGAGAATTCTGAAAAGGTGGACATCTCTACCAAGGACCTTCTTCTCATCAAGAATTGCGAATTAAGTC
 TGGTCTGGAGAAGGCTATCAAGCATAAAGACAACTGTTAGAGTTTGACAGAAGTATTCGAAGGACC
 CAAGTCATTGATGATGAGTCAGATTACTTTGCCAGTGATTCTAACCAATGGTTGTCCAAACTTGAGCGGG
 AAACCTTGCAAGAGCAGAGGAGGAGCTGAGAGAACTTCGACACGCCTCTCGACTTTCTAAGAAGGTCAC
 CATTGACTTTGCAGGAAGGAAGATCCTGGAAGAAGAAAATTCCTAGCAGAGTATCATAGCAGACTAGAT
 GAGACAATACAGGCCATTGCCAATGGAACCTTGAACAGCCACTGACCAATGGATAGATCTTCTGAAG
 AGCCTTTGGGAGTTCTGGTAAATCCCAACATGTACCAGTCCCCTCCCAGTGGGTTGACCACACAGGTGC
 AGCCTCACAGAAGAAGGCTTCCGTTCTCAGGATTTGGACTAGAGTTCAACTCATTTCAGCACCAGCTG
 CGAATCCAGGATCAAGAATTTCCAGGAAGGCTTTGATGGTGGCTGTGCCTCTCTGTACATCAGCCCTGGG
 CTTCTCTGCTTGTGAGAGGATTAAGGGTGGAGGCGAGATCCTGGTACACCCCCACAGAGGACGACT
 TTGGATAGCAGCCACAGCTAAAAACCCTCCCCTCAAGAAGTCTCAGAAGTCCAGGCTACATATCGTCTT
 CTTCTGTTGAAAGATGTGGAATTTCTAATGACTATCCGTCAGGTTGTCTTCTGGGCTGTGTGGACCTAA
 TTGACTGCTTGTCCAGAAGCAATTTAAGGAGCAGTTCCAGACATCAGTCAAGAATCTGATTCTCCATT
 TGTTTTCATCTGCAAAAATCCTCAGGAAATGGTTGTGAAGTTTCTATTAAGGAAATCCAAAAATCTGG
 AAATTGGATTCCAAGATCCATCAAGGAGCAAGAAGGGGTTAATGAAGCAGAATAAAGCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201863 representing NM_016213
 Red=Cloning site Green=Tags(s)

MAVAGAVSGEPLVHWCTQQLRKTFGLDVSEEIIQYVLSIESAEEIREYVTDLLQGNEGKKGQFIEELITK
 WQKNDQELISDPLQQCFKKDEILDGQKSGDHLKRGRKGRNRQEVPAFTEPDTTAEVKTPFDLAKAQENS
 NSVKKKTKFVNL YTREGQDRLAVLLPGRHPCDCLGQKHKLINNCLICGRIVCEQEGSGPCLFCGLTVCTH
 EEQDILQRDSNKSQKLLKLLMSGVENSQKVDISTKDLLPHQELRIKSGLEKAIKHKDKLLEFDRTSIRRT
 QVIDDESDFASDSNQWLSKLERETLQKREELREL RHASRLSKKVTIDFAGRKILEEENSLAEYHSRLD
 ETIQAIANGTLNQPLTKLDRSSEEPGLVLPNPNMYQSPQWVDHTGAASQKKAFRSSGFLGFNSFQHQ
 RIQDQEFQEGFDGGWCLSVHQPWASLLVRGIKRVESWYTPHRGRLWIAATAKKPSPQEVSELQATYRL
 LRGKDVFEFPNDYPSGCLLGCVDLIDCLSQKQFKEQFPDISQESDPPVFICKNPQEMVVKFPIKGNPKI
 KLDSKIHQGAKKGLMKQNKAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3523_b07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_016213

ORF Size: 1743 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_016213.2](#)

RefSeq Size: 2044 bp

RefSeq ORF: 1746 bp

Locus ID: 9325

UniProt ID: [Q15650](#)

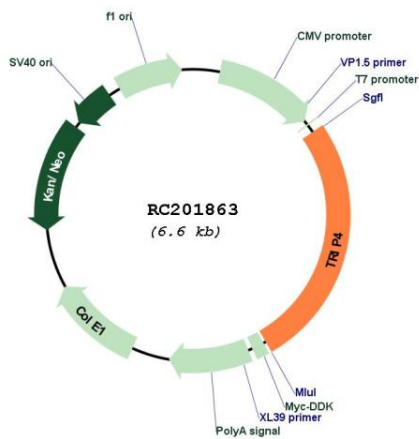
Cytogenetics: 15q22.31

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

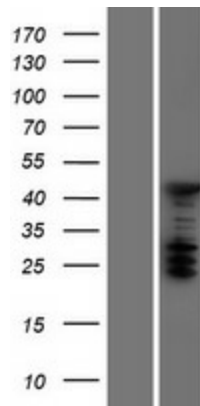
MW: 66 kDa

Gene Summary: 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]

Product images:



Circular map for RC201863



Western blot validation of overexpression lysate (Cat# [LY414127]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201863 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).