

## Product datasheet for RC216672

### ASCC3 (NM\_006828) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASCC3 (NM_006828) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ASCC3
Synonyms:	ASC1p200; HELIC1; RNAH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216672 representing NM_006828 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTTACCTCGTCTCACAGGAGCCTTGCCTTCTTTCAAATGTCACCAAGCAAGATAATTATAATG  
AAGAAGTGGCTGACTTAAAGATAAAGCGATCTAACTTCATGAACAAGTTTTAGATTTGGCCTGACATG  
GAAGAAGATAATAAAATTTTGAATGAAAACTGGAGAAGAGTAAATGCAAAGTATAAATGAAGACTTA  
AAAGATATATTACATGCTCAAAGCAGATAGTTGGAAGTATAATGGGAGAGAAGCAATTGAAAGTGGG  
CTGCAATTTCTTTCATGACATTTCACTTGAAGGACTCTGTTGGTACAAGGAAACAAAGGCTATCAAACA  
GATGTTTGGCCCCCTTTCCTTCATCATCTGCCACTGCAGCTTGAATGCTACTAATCGAATATTTCTCAT  
TTTAGTCAAGATGATCTTACTGCTTGTGCAGATGACAGAAAAAGAATCGCGATAGGGTTTTTTTTG  
GTAAAAATTTAGCATTTCATTTGACATGCATGATTTGGACCACTTTGACGAACTGCCAATAAATGGTGA  
AACTCAGAAAACTATAAGCCTAGATTATAAGAAGTTTCTGAATGAACATCTCCAGGAGGCTTGACCCCCA  
GAACTCAAGCCTGTGGAAAAACAATGGCTCCTTTTTGTGGTGTGAAGTTGAAAAGTACCTAAATTCAA  
CTTTGAAGGAAATGACTGAAGTGCCAAGAGTAGAAGATCTTGTGTACTTTATATGATATGCTTGCTTC  
TATTAAGTGGTGTGAAGTTCAGGATGAGCTATTTGAAGTCTGGGACCTGAAGGACTTGAAGCTTATT  
GAGAACTCTCCAGAACAAGTACAATTTGGGATAGATTTCTTAATTTCAAATGATCATAGGTTTC  
AGGCTCTTCAAGCAATTGTAAAAAATTTTAGGAGAAAATGCTAAACCAATTATGGTTGTCAAGTCAC  
TATTCAGTCTGAACAAGAAAAGCAGTTAATGAAACAATATCGACGTGAAGAAAAAGAATTGCCAGACGA  
GAAAAAAGGCTGGAGAAGATTTAGAAGTTTCAGAAGGACTTATGTGCTTTGATCCTAAGGAATTGCGGA  
TACAAAGAGAACAGGCCTTCTGAATGCTAGAAGTGTTCAAATCTGAGCAGGCAGAGAGATGCAGACGT  
TGAAAAAATACATTATCCCCATGTGTATGATTCCAGGCTGAAGCCATGAAAACATCAGCATTTATTGCT  
GGTGCAAAGATGATTTTCCAGAAGGAATCCAAGAGAGAATAACAAGCTTTATGAAGAAGTAAAGATT  
CCTACAGCGAACCAATGCCACTCAGCTTTGAGGAAAAGCCAGTTTATATCCAAGACTTAGATGAGATCGG  
ACAGCTGGCTTTAAAGGAATGAAGAGACTCAATAGAATCCAGTCAATAGTGTGGAGACTGCCTACAAC



[View online »](#)

ACCAATGAGAACATGCTGATTTGTGCCCTACAGGAGCTGGAAAAACCAACATTGCAATGCTGACAGTCT  
 TGCATGAAATTCGCCAACATTTTCAACAAGGTGTATCAAAAAGAATGAATTTAAGATTGTATATGTTGC  
 TCCAATGAAAGCCTTGGCAGCTGAAATGACAGATTACTTCAGCAGACGTCTAGAGCCACTAGGCATCATT  
 GTGAAAGAATTGACTGGTGCATGCAGTTGTCCAAAAGTGAAATTTACGAACTCAGATGCTTGTGACCA  
 CACCAGAAAAATGGGATGTAGTGACAAGAAAGAGTGTGGGGATGTAGCTCTTCCCAGATTGTAAGGCT  
 CCTTATCTTGATGAAGTTCATTTGCTGCATGAAGATAGAGGACCAGTATTAGAAAAGCATAGTTGCCCGT  
 ACTTTACGGCAGGTGGAATCCACACAGAGTATGATAAGGATTCTCGGACTGTCTGCAACTTTACCTAACT  
 ACCTCGATGTTGCCACATTTTTACATGTTAATCCATACATTGGACTTTTTCTTCTTTGATGGCCGTTTTCG  
 ACCAGTACCTCTTGGACAGACATTTTTGGGGATTAAATGTGCAAAATAAGATGCAGCAGTTGAATAACATG  
 GATGAAGTATGTTATGAAAATGTTTTGAAGCAAGTAAAGGCTGGACACCAGGTGATGGTGTGTTGACATG  
 CTCGAAATGCCACTGTAAGAACAGCTATGTCTCTAATAGAAAAGAGCAAAAAATTGTGCCATATTCCTT  
 CTTTTTCTACCCAAGGACATGACTATGACTTGCAGAAAAACAGGTACAAAGGTCGAGAAAATAAGCAA  
 GTACGAGAATTATCCCAGATGGTTTTAGTATTCATCATGCAGGAATGCTTCGGCAGGACAGAAAATTAG  
 TTGAAAACCTGTTTTCTAATGGGCATATCAAAGTCTAGTGTGTACAGCTACGTTAGCCTGGGGTGTCAA  
 TCTTCCCGCCATGCTGTTATTATTAAGGGAACACAAATATATGCTGCAAAAAGAGGCTCCTTTGTTGAC  
 CTTGGAATTTTAGATGTCATGCAGATATTTGGTCGAGCTGGACGACCACAATTTGACAAAATTTGGGGGAA  
 GAATAATTATAACAACGCATGATAAACTCAGCCATTACCTCACTTTGCTCACTCAACGAAACCAATTGA  
 GAGTCAGTTTCTGAAAAGCCTTGCAGATAACCTAAATGCAGAGATTGCTCTGGGAACAGTTACTAATGTG  
 GAAGAAGCAGTGAAGTGGATAAGTTACACTTATCTTTATGTACGGATGAGAGCAAATCCATTAGCATATG  
 GCATCAGTCACAAGGCTTATCAGATTGACCAACATTAAGAAAAGCATCGAGAACAGTTGGTCATTGAAGT  
 TGGACGAAAACAGCAAAGCTCAGATGATTCGTTTTGAGGAGCGAACTGGATATTTTTCTCAACTGAT  
 CTGCAAAAACAGAAAGGTGATATCTTTGCCATAGTCTCAAAGCTGAAGAATTTGATCAAAATTAAGGTCAG  
 AGAAGAGGAAAATAGAGGAGTTAGATACCTTATTAAAGCAATTTTTGTGAACCTCCACTCCTGGAGGTGTA  
 GAGAATAGTTATGGGAAAATAAACATCTTACTTCAAACCTATATCAGCCGAGGAGAAAATGGACAGTTTCT  
 CCCTTATATCAGATTCTGCATATGTTGCACAGAAATGCAGCTAGAATTGTCCGTGCTTTTTGAAATTGC  
 TCTGAGGAAACGTTGGCCTACCATGACCTACAGGCTCCTGAATCTTAGTAAAGTCATTGACAAGAGGCTT  
 TGGGGTTGGGCTAGCCCTTTGAGACAATTTTCAATCCTACCACCACACATCTCAACAAGATTAGAAGAAA  
 AAAAGCTTACTGTGGATAAGCTGAAAGACATGAGGAAAGATGAAATAGGTCACATTTTACATCATGTGAA  
 TATTGGACTGAAGGTCAAACAATGTGTTTATCAGATTCCTTCTGTTATGATGGAAGCATCCATTCAGCCT  
 ATCACAAGGACTGCTCCTCGAGTGACACTCAGCATCTATGCTGATTTCACTTGAATGATCAGGTACATG  
 GGACAGTAGGAGAACCTTGGTGGATTTGGGTAGAAGATCCTACAATGATCATATTTATCATTCAGAGTA  
 TTTTCTAGCTCTAAAAAACAAGTCATTAGTAAAGAAGCCCAACTACTGGTATTTACAATCCCTATTTTT  
 GAGCCTTTGCCTTCCCAATACTACATCCGAGCAGTGTCTGATAGATGGTTGGGTGCTGAGGCAGTATGTA  
 TTATCACTTTCAACATCTAATTCTACCAGAGAGACATCCTCCTCATACAGAATTACTGGATCTTCAGCC  
 TTTACCAATCACAGCTTTGGGATGTAAGCATATGAAGCCTGTACAACCTCAGCCACTTTAACCCCTGTA  
 CAGACACAAAATTTTATACATTGTATCACACGGATTGTAATGTCCTACTTGGAGCACCTACTGGATCGG  
 GAAAGACTGTTGCAGCTGAATTAGCCATTTTCAAGTCTTCAACAATACCCTACTTCAAAGGCGGTATA  
 TATTGCACCCCTAAAAGCCCTAGTACGTGAAAGAATGGATGATTGGAAAAGTTAGAATAGAAGAAAAACTT  
 GGTAAAAAAGTTATTGAACTAACAGGGGATGTGACTCCTGATATGAAATCCATTGCCAAGGCTGACCTTA  
 TCGTCACTACGCCAGAGAAGTGGGATGGAGTGCAGCAGAAGCTGGCAAAATAGGAACTATGTTGAGCAAGT  
 CACTATTCTCATCATAGATGAGATCCATCTGCTTGGGGAGGAAAGAGGCCCTGTTCTAGAGGTGATTGTA  
 TCTCGAACAAAATTTTATCTCATCACACAGAAAAGCCTGTTAGAATAGTTGGACTATCTACTGCATTAG  
 CTAATGCCAGAGACCTTGTGATTGGCTCAATATTAAGCAGATGGGCTTGTTTAACTTCCGACCATCAGT  
 ACGCCAGTTCCACTGGAAGTTCACATTCAGGCTTTCCAGGTCAACATTACTGTCCTCGTATGGCTAGT  
 ATGAACAAGCCTGCATTTAGGCAATTAGAAGCCATTCTCCAGCCAAACCTGTTTTGATATTTGTCTCAT  
 CAAGACGTCAAACCTGCTTACTGCTTTGGAATTGATCGCCTTCTGGCTACTGAAGAAGATCCAAAGCA  
 GTGGTTAAACATGGATGAAAGAGAGATGGAGAACATATTGCAACAGTAAGAGATTCCAACCTCAAGCTG  
 ACCCTTGCTTTCGGGATAGGAATGCATCATGCTGGACTACATGAGAGGGACCGAAAAACAGTAGAGGAAC  
 TATTTGTAAACTGTAAGTTTCAAGTTCTTATTGCTACAAGCACATTAGCCTGGGGTGTAAACTTTCCAGC  
 TCAATTTAGTAATTAAGGGAACAGAATACTATGATGGAAAAACAAGACGTTATGTGGATTTTCCCATT  
 ACAGATGTCTCCAGATGATGGGGCTGCTGGGAGGCCGAGTTCGATGACCAAGGCAAGCTGTAATTC

TAGTTCATGACATAAAGAAAGACTTTTATAAAAAATTTCTTTATGAACCTTTCCAGTAGAATCAAGTTT  
ATTAGGAGTGCTCTGACCCTTAAATGCAGAGATTGCTGGTGGTACAATTACATCTAAGCAAGATGCA  
TTGGATTATATCACCTGGACTTACTTTTTCCGACGTCTTATCATGAATCCCAGCTATTACAATTTGGGTG  
ATGTGAGCCATGATTCTGTGAACAAGTTTCTGTCCCATCTGATTGAGAAGTCCCTGATTGAATTGGAAC  
TTCCTACTGTATTGAAATTGGAGAGGATAATCGCAGCATTGAACCTCTAECTTATGGCCGAATTGCCTCC  
TATTACTATTTGAAGCATCAAACAGTTAAAATGTTCAAGGACCGCTTGAAGCCTGAATGCAGTACTGAAG  
AACTGCTTTCAATTCTAAGTGATGCAGAAGAATATACAGATTTGCCAGTGAGACACAATGAAGTACAT  
GAATAGTGAACGGCAAATGTCTTCCATTGAATCAAATCCTCATTCTTTGACAGCCCTCACACAAA  
GCACATCTCTGTACAGGCACATCTCAGCCGAGCCATGCTACCCTGCCAGATTATGACTGATACCA  
AAACAGTCTTGGACCAAGCTCTCAGAGTATGTCAGGCAATGCTGGACGTGGCTGCAAACCAGGGCTGGCT  
GGTGACTGTCTGAATATCACCAACCTGATTCAGATGGTGATCCAGGGTCGGTGGTTAAAGGACTCTTCT  
CTTCTTACACTACCAAACATAGAAAACCATCATCTTCACCTTTTCAAGAAATGGAAGCCGATTATGAAGG  
GCCACATGCTAGGGTTCGGACCTCCATCGAGTCCCTTCTGAACTGATCCATGCCTGTGGAGGGAAAGA  
CCATGATTTAGCTCCATGGTAGAAAGTGAGCTACATGCTGCAAAAACGAAACAGGCATGGAATTTCTTA  
TCTCACTTGCAGTGATAAATGTTGGCATAAAGTGTAAAGGCTCGTGGGATGACTTAGTTGAAGGACATA  
ATGAACTCTGTCTCAACTCTGACTGCAGACAAACGAGATGACAACAAATGGATCAAATTCATGCTGA  
CCAAGAGTATGTCTCAAGTGAGCTTGCAGAGAGTCCACTTTGGGTTCCACAAGGGAAAGCCAGAGAGC  
TGTGCAGTTACTCCTCGATTTCCCAAATCAAAGACGAAGGATGGTTTTTGATATTAGGAGAAGTGGATA  
AGAGAGAACTTATTGCTTTGAAAAGAGTAGGATATATTCGAAATCATCATGTTGCTTCCCTTTCTTTTA  
TACCCCTGAAATACCTGGAAGGTATATCTACACATTATTTTCATGAGTGACTGTACCTTGGCCTGGAC  
CAGCAGTATGACATCTATCTCAACGTTACACAAGCGAGTCTTCTGCACAGGTCAACACCAAGGTCTCTG  
ATTCCCTGACTGACCTGGCATTAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC216672 representing NM\_006828  
 Red=Cloning site Green=Tags(s)

MALPRLTGALRSFSNVTKQDNYNEEVADLKIKRSKLEHQVLDLGLTWKKIIKFLNEKLEKSKMQSINEDL  
 KDILHAAKQIVGTDNGREATIESGA AFLFMTFHLKDSVGHKETAIKQMFPGFPSSATAACNATNRIISH  
 FSQDDL TALVQMTKEHGDVRFVFGKNLAFSFDMDHLDHFDELPI NGETQKTIISLDYKFKLNEHLQEACTP  
 ELKPVEKTNGSFLWCEVEKYLNSTLKEMTEVPRVEDL CCTLYDMLASIKSGDELQDEL FELLGPEGLELI  
 EKLLQNRITIVDRFLNSSNDHRFQALQDNCKKILGENAKPNYGCQVTIQSEQEKQMKQYRREKRIARR  
 EKKAGEDLEVSEGLMCFDPKELRIQREQALLNARSVPILSRQRDADVEKIHYPHYVDSQAEAMKTSAFIA  
 GAKMILPEGIQRENKLYEEVRIPYSEPMPLSFEKPVYIQDLDEIGQLAFKGMKRLNRIQSI V FETAYN  
 TNENMLICAPTGAGKTNIAMLTVLHEIRQHFQQGVIKNEFKIYVYVAPMKALAAEMTDYFSRRLEPLGII  
 VKELTGMQLSKSEILRTQMLVTTPEKWDVVTRKSVG DVALSQIVRLLILDEVHLLHEDRGPVLESIVAR  
 TLRQVESTQSMIRILGLSATLPNYLDVATFLHVNPIYIGLFFFDGRFRPVPLGQTF LGIKCANKMQQLNMM  
 DEVCYENVLQVQKAGHQVMVFHARNATVRTAMSLIERAKNCGHIPFFFP TQGHYVLAEKQVQRSRNKQ  
 VRELPDGF SIHHAGMLRQDRNLVENLFSNGHIKVLVCTATLAWGVNLP AHAVI IKG TQIYAAKRGSFVD  
 LGILDVMQIFGRAGRPFQDKFGEGIIITTHDKLSHYLTLTQRNPIESQFLES LADNLNAEIALGTVTNV  
 EEAVKWI SYTYLYVRMRANPLAYGISHKAYQIDPTLRKHREQLVIEVGRKLDKAQMIRFEERTGYFSSD  
 LGRTASHYYIKYNTIETFNELFDAHKTEGDI FAIVSKAE EFDQIKVRE EEEIEELDTLLSNFCELSTPGGV  
 ENSYGINILLQTYISRGEMDSFSLISDSAYVAQNAARIVRALFEIALRKRWPTMTYRLLNL SKVIDKRL  
 WGASPLRQFSILPPHILTRLEEKKLTVDKLDKMRKDEIGHILHHVNI GLKVKQC VHQIP SVMMEASIQP  
 ITRTVLRVTL SIYADFTWNDQVHGT VGE PWWI WVEDPTNDHIYHSEYFLALKKQVISKEAQLLVFTIPIF  
 EPLPSQYYIRAVSDRWLGA EAVCIINFQHLILPERHPPHTELLDLQPLPITALGCKAYEALYNFSHFNPV  
 QTQIFHTLYHTDCNVLLGAPTGSCKTVAEELAI FRVFNKYPTSKAVYIAPL KALVRERMDWKVRIEEL  
 GKKVIELTGDVTPDMKSI AKADLIVTTPEKWDGVSRSWQNRNYVQVVTIL IIDEIHLGEE RGPVLEVIV  
 SRTNFISSHTEKPVRIVGLSTALANARDLADWLN I KQMG LFNFRPSVRPVLEVHIQGFPGQHYCP RMAS  
 MNKPAFAQAIRSHSPAKPVLIFVSSRRQTRLTALELIAFLATEEDPKQWLNMDEREMENI IATVRDSNLK L  
 TLAFGIGMHAGLHERDRKTV EELFVNCKVQVLIATSTLAWGVNFP AHLVI IKGTEY YDGKTRRYVDFPI  
 TDV LQMMGRAGRPFDDQGKAVILVHDIKKDFYKFLYEPFPV ESSLGVLSDHLNAE IAGGTITSKQDA  
 LDYITWYFFRRLIMNPSYYNLGDVSHDSVNKFLSHLIEKSLIELELSYCI EIGEDNRSIEPLTYGRIAS  
 YYYLKHQTVKMFKDR LKPECSTEELL SILSDAE EYTDLPVRH NEDHMNSELAKCLPIESNPHSFDS PHTK  
 AHL LLAHL SRAMLPCPDYD TDTKTVLDQALRVCQAML DVAANQGWLVTLNITNLIQMVIQGRWLKDSS  
 LLTL PNIEHHHLHLFKWKPI MKGPHARGRTSIESLPEL ITHACGKDHVFS S MVESELHAAKTKQAWNFL  
 SHLPVINVGISVKG S WDDLVEGHNELSVSTL TADKRDDNKWIKLHADQEYV LQVSLQRVHFVGHKGPES  
 CAVTPRFPKSKDEGWFLILGEVDKRELI ALKRVGYIRNHHVASLSFYTPEIPGRYIYTL YFMSDCYLG L D  
 QQYDIYLNVTQASLSAQVNTKVSDSLTDLALK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8016\\_h12.zip](https://cdn.origene.com/chromatograms/mk8016_h12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_006828

**ORF Size:** 6606 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

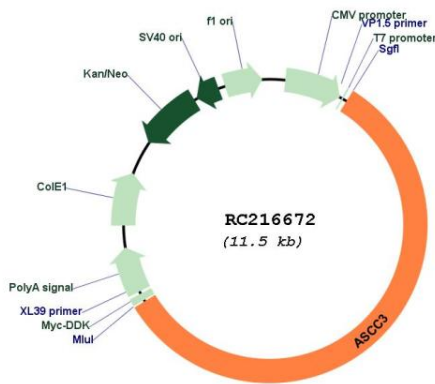
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_006828.4](#)  
**RefSeq Size:** 7598 bp  
**RefSeq ORF:** 6609 bp  
**Locus ID:** 10973  
**UniProt ID:** [Q8N3C0](#)  
**Cytogenetics:** 6q16.3  
**Domains:** DEAD, helicase\_C, AAA, Sec63  
**Protein Families:** Transcription Factors  
**MW:** 251.3 kDa

**Gene Summary:** This gene encodes a protein that belongs to a family of helicases that are involved in the ATP-dependent unwinding of nucleic acid duplexes. The encoded protein is the largest subunit of the activating signal cointegrator 1 complex that is involved in DNA repair and resistance to alkylation damage. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

**Product images:**



Circular map for RC216672