

Product datasheet for **RC234708**

ASCC2 (NM_001242906) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ASCC2 (NM_001242906) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | ASCC2 |
| Synonyms: | ASC1p100; p100 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide
Sequence:

>RC234708 representing NM_001242906
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGTCTGCCCTGGACCACTCCAGATCACCCACAAGGACCCGAAGACAGGAAAGCTGAGGACTT
CACGAGCGCTGGTGATCTTTGACGAGACTCTACAGAAAGTGCCTGGACTCCTACCTGCGCTATGTCCCCCG
CAAATTCGACGAGGGGGTGGCCTCAGCCCTGAGGTTGTTGACATGCAGAAGCGCCTCCATCGAAGTGTT
TTTCTCACCTTCTCCGCATGTCCACTACAAGGAATCCAAAATCCTGGACCTCTGCGTGTCTTTGGAA
AAGGCACTCACCCTGCTCCAGAAGATGATAGGAAACATCTTTACACAGCAGCCAAAGTTACTACAGTGA
CCTGGATGAAACCCTGCCTACCATCCTTACAGTCTTACAGCAATATCCTCCAGCACTGTGGTTTGAAGGG
GACGGGGCCAATACCACACCCAGAAAGCTTGAGGAGAGGGGCGGATTGACCCCAAGTGCATGCCTCTCC
TGAATTAAGGACATTGTTCTACCTTTGTGATACCTGCACCACACTTTGGCCTTTCTGGATATCTT
CCCTTTGGCTTGCAGACCTTCCAGAAGCAGACTTTTGTACAGACTAGCTTCTTCTACGAAGCAGCA
ATTCCCGAAATGGAGTCTGCAATTAAGAAGAGGAGGCTTGAAGATAGCAAGCTTCTTGGTACCTGTGGC
AGAGGCTCTCCATTCCAGGAAGAAGCTAATGGAGATTTCCACATCATCCTGAACCAGATCTGCCTCCT
TCCCATCTAGAAAGCAGCTGTGACAACATTCAGGGCTTCATCGAAGAGTTCTTTCAGATCTTACGCTCC
TTGCTGCAGGAGAAGAGGTTCTCCGGGACTATGATGCACTTTCCTCCGTTGGCCGAAGACATCAGCTTGC
TGCAGCAGGCCTCATCAGTCTTGGACGAGACGCGGACTGCCTACATCCTCCAGGCAGTGCAGAGTGCATG
GGAAGGGTGGACAGACGAAAGCCACAGATGCTAAAGACCCATCGGTGATTGAGGAGCCTAATGGGGAG
CCTAACGGGTACGGTGACAGCAGAGGCAGTCAAGCATCATCACATCCGGAGAAGTCCGGAGGAAG
AGGAGTGCATGGGAGCAGCCGCGCTGTGGCCCTGCCATGTGTGGGGTGAAGTGGACTCTCATCTC
CCAAGTGAAGGACCTGCTGCCAGACCTTGGTGAGGGCTTCATCCTGGCCTGCCTGGAGTACTACCACTAC
GACCCAGAGCAGGTGATCAACAATATCCTGGAGGAGCGGCTGGCCCCACCCTCAGCCAGCTGGACCGCA
ACCTAGACAGAGAAATGAAACCAGACCCTACACCCTGCTGACGTCTCGCCACAACGTCTTCCAGAATGA
CGAGTTTGTGTTTCAGCAGGGACTCAGTAGACCTGAGCCGGGTGCACAAGGGCAAGAGCACCAGGAAG
GAGGAAAACACGCGGAGTTTGTGAACGACAAGCGTGCAGTGGCGGCACAGCGGCAGCGCTACGAGCAGT
ACAGCGTGGTGGTGGAGGAGTGCCTGCAGCCAGGCGAGAGCCTGCCCTACCACAGTGTCTACTACGA
GGATGAGTACGATGACACATACGATGGCAACCAGGTGGGCGCCAATGATGCAGACTCTGATGACGAGCTC
ATCAGCCGAGGCCATTCACCATCCCTCAGGTGCTGAGAACCAAGTGCCTAGAGAAGGGCAGGAGGAGG
ATGACGAGATGAGGAAGACGATGCTGACGAGGAGGCTCCAAGCCCACCAATTTGTTACAGGACCTGC
AGTGTGAGAGAGAAGGCAGAAGCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGGTACCGGCATGACAGC
TCAACAGCAGTGGCCGCGAGCCCCGAGGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGA
AGGAAGCCAACAAGGCGACAAGAGCCAACCACAACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGG
CATGATCCCATCC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234708 representing NM_001242906
Red=Cloning site Green=Tags(s)

MPALPLDQLQITHKPKTKGLRTSPALVIFDETLQKCLDSYLRYVPRKFDEGVASAPEVVDMMQKRLHRSV
 FLTFLRMSTHKEISKILDLCVLFKGNPPLLQKMIGNIFTQQPSYSDLDELPTILQVFSNILQHCLGQG
 DGANTTPQKLEERGRLTPSDMPLELEKDIVLYLCDTCTTLWAFLDIFPLACQTFQKHDFCYRLASFYEA
 IPEMESAIKRRLEDSKLLGDLWQRLSHSRKLMEIFHILNQICLLPILESSCDNIQGFIEEFLQIFSS
 LLQEKRFRLRDYDALFPVAEDISLLQQASSVLDERTAYILQAVESAWEGVDRRKATDAKDPSVIEEPNGE
 PNGVTVTAEAVSQASSHPENSEEEEECMGAAAVGPAMCGVELDSLISQVKDLLPDLGEGFILACLEYYHY
 DPEQVINNILEERLAPTLSQLDRNLDREMCPDPTPLLSRHNVFQNFDFVSRSDVLSRVHKGKSTRK
 EENTRSLNDRKRAVAQRQRYEQYSVVVEEVLQPGESLPYHSVYYEYDDTYDGNQVGVANDADSDDEL
 ISRRPFTIPQVLRKVPREGQEEDDDDEEDDADEEAPKPDHFVQDPAVLREKAEARRMAFLAKKGYRHDS
 STAVAGSPRHHGQSRRETTQERRKKEANKATRANHRRTMADRKRKSGMIPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001242906

ORF Size: 2043 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_001242906.2](#)

RefSeq Size: 2612 bp

RefSeq ORF: 2046 bp

Locus ID: 84164

UniProt ID: [Q9H118](#)

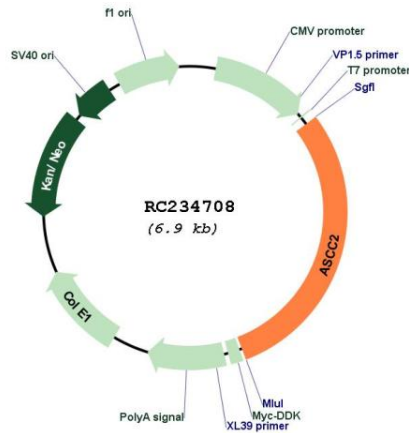
Cytogenetics: 22q12.2

Protein Families: Druggable Genome, Transcription Factors

MW: 77.8 kDa

Gene Summary: Plays a role in DNA damage repair as component of the ASCC complex. Recruits ASCC3 and ALKBH3 to sites of DNA damage by binding to polyubiquitinated proteins that have 'Lys-63'-linked polyubiquitin chains (PubMed:29144457). Part of the ASC-1 complex that enhances NF-kappa-B, SRF and AP1 transactivation (PubMed:12077347).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC234708