

## Product datasheet for **RG234708**

### ASCC2 (NM\_001242906) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASCC2 (NM_001242906) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ASCC2
Synonyms:	ASC1p100; p100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RG234708 representing NM\_001242906  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCAGCTCTGCCCTGGACCACTCCAGATCACCCACAAGGACCCGAAGACAGGAAAGCTGAGGACTT  
 CACCAGCGCTGGTGATCTTTGACGAGACTCTACAGAAAGTGCCTGGACTCCTACCTGCGCTATGTCCCCG  
 CAAATTCGACGAGGGGTGGCCTCAGCCCTGAGGTTGTTGACATGCAGAAGCGCCTCCATCGAAGTGTT  
 TTTCTCACCTTCTCCGCATGTCCACTACAAGGAATCCAAAATCCTGGACCTCTGCGTGCTCTTTGGAA  
 AAGGCACTCACCCTGCTCCAGAAGATGATAGGAAACATCTTTACACAGCAGCCAAAGTTACTACAGTGA  
 CCTGGATGAAACCCTGCCTACCATCCTTCAGGTCTTCAGCAATATCCTCCAGCACTGTGGTTTGCAAGGG  
 GACGGGGCAATACCACACCCAGAAAGCTTGAGGAGAGGGGCGATTGACCCCACTGACATGCCTCTCC  
 TGAATTAAGGACATTGTTCTCTACCTTTGTGATACCTGCACCACACTTTGGCCTTTCTGGATATCTT  
 CCCTTTGGCTTGCAGACCTTCCAGAAGCAGACTTTTGTACAGACTAGCTTCTTCTACGAAGCAGCA  
 ATTCCCGAAATGGAGTCTGCAATTAAGAAGAGGAGGCTTGAAGATAGCAAGCTTCTTGGTGACCTGTGGC  
 AGAGGCTCTCCATTCCAGGAAGAAGCTAATGGAGATTTCCACATCATCCTGAACCAGATCTGCCTCCT  
 TCCCATCTAGAAAGCAGCTGTGACAACATTCAGGGCTTCATCGAAGAGTTCTTCAGATCTTCAGCTCC  
 TTGCTGCAGGAGAAGAGGTTCTCCGGGACTATGATGCACTTTCCTCCGTTGGCCGAAGACATCAGCTTGC  
 TGCAGCAGGCCTCATCAGTCTTGGACGAGACGCGGACTGCCTACATCCTCCAGGCAGTCGAGAGTGCATG  
 GGAAGGGTGGACAGACGAAAGCCACAGATGCTAAAGACCCATCGGTGATTGAGGAGCCTAATGGGGAG  
 CCTAACGGGTACCGGTGACAGCAGAGGCAGTCAAGCATCATCACATCCGGAGAAGTCCGGAGGAAG  
 AGGAGTGCATGGGAGCAGCCGCGCTGTGGCCCTGCCATGTGTGGGGTGAAGTGGACTCTCTCATCTC  
 CCAAGTGAAGGACCTGCTGCCAGACCTTGGTGAGGGCTTCATCCTGGCCTGCCTGGAGTACTACCACTAC  
 GACCCAGAGCAGGTGATCAACAATATCCTGGAGGAGCGGCTGGCCCCACCCTCAGCCAGCTGGACCGCA  
 ACCTAGACAGAGAAATGAAACCAGACCCTACACCCTGCTGACGTCTCGCCACAACGTCTTCCAGAATGA  
 CGAGTTTGATGTGTTCCAGCAGGACTCAGTAGACCTGAGCCGGGTGCACAAGGGCAAGAGCACCAGGAAG  
 GAGGAAAACACGCGGAGTTTGTGAACGACAAGCGTGCAGTGGCGGCACAGCGGCAGCGCTACGAGCAGT  
 ACAGCGTGGTGGTGGAGGAGTCCACTGCAGCCAGGCGAGAGCCTGCCCTACCACAGTGTCTACTACGA  
 GGATGAGTACGATGACACATACGATGGCAACCAGGTGGGCGCCAATGATGCAGACTCTGATGACGAGCTC  
 ATCAGCCGAGGCCATTCACCATCCCTCAGGTGCTGAGAACCAAGTGCCTAGAGAAGGGCAGGAGGAGG  
 ATGACGAGATGAGGAAGACGATGCTGACGAGGAGGCTCCAAGCCCACCATTTTGTTCAGGACCTGC  
 AGTGTGAGAGAGAAGGCAAGCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGGTACCGGCATGACAGC  
 TCAACAGCAGTGGCCGCGAGCCCCGAGGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGA  
 AGGAAGCCAACAAGGCGACAAGAGCCAACCACAACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGG  
 CATGATCCCATCC

**ACGCGT**ACGCGGCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG234708 representing NM\_001242906  
 Red=Cloning site Green=Tags(s)

```
MPALPLDQLQITHKDPKTGKLRTPALVIFDETLQKCLDSYLRYVPRKFDEGVASAEVVDMMQKRLHRSV
FLTFLRMSTHKESKILDLCVLFKGNPPLLQKMIIGNIFTQQPSYSDLDELPTILQVFSNLIQHCGLQG
DGANTTPQKLEERGRLLTPSDMPLELKDIVLYLDCDTCTTLWAFLDIFPLACQTFQKHDFCYRLASFYEA
IPEMESAIKRRRLEDKLLGDLWQRLSHSRKKLMEIFHIIILNQICLLPILESSCDNIQGFIEEFLQIFSS
LLQEKRFRLRDYDALFPVAEDISLLQQASSVLDERTAYILQAVESAWEGVDRRKATDAKDPVIEEPPNGE
PNGVTVTAEAVSQASSHPENSEEEEECMGAAAAGVAMPVCGVELDSLISQVKDLLPDLGEGFLLACLEYHY
DPEQVINNILEERLAPTLSQLDRNLDREMKPDPTPLLSRHNVFQNFDEFVSRSDVLSRVHKGKSTRK
EENTRSLNDRKRAVAARQRYEQYSVVVEEVLQPGESLPYHSVYVEDEYDDTYDGNQVGVANDADSDDEL
ISRPFPTIPQVLRKVPREGQEEDDDDEEDDADEEAPKPDHFVQDPVLRKAEARRMAFLAKKGYRHDS
STAVAGSPRGGQSRRETTQERRKKEANKATRANHRRTMADRKRKSGMIPS
```

TRTRPLE - GFP Tag - V

**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

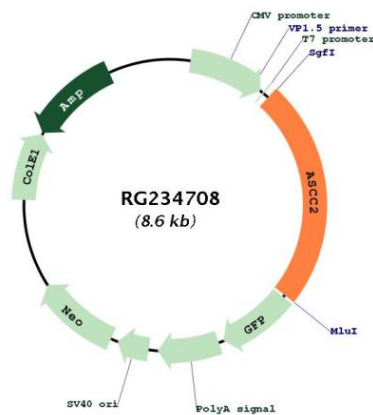
**UniProt ID:** [Q9H118](#)

**Cytogenetics:** 22q12.2

**Protein Families:** Druggable Genome, Transcription Factors

**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 RG234708