

Product datasheet for **MC223107**

Ascc3 (BC059917) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ascc3 (BC059917) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ascc3
Synonyms:	RNAH, ASC1p200, D630041L21
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC059917 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACAGTTTCTCCCTCATATCAGATTCTGCATATGTCGCCAGAAATGCAGCTAGAATTGTCCGTGCTC
TCTTTGAAATTGCACTGAGGAAACGTTGGCCTACCATGACCTACAGGCTTTTGAATCTTAGTAAAGTCAT
TGACAAGAGACTCTGGGTTGGGCTAGCCCTTTGAGACAATTTCTGTGTTACCACCACACATTCTAACA
AGATTAGAAGAAAAAACCTTACTGTGGATAAACTCAAAGACATGAGAAAAGATGAAATAGTGCACATTT
TGCATCATGTGAATATTGGACTGAAGGTCAAACAGTGTGTTTCATCAAATTCCTTCTGTTACAATGGAAGC
TTCCATTACGCCATCACACGGACTGTCCTCCGAGTATCACTGAACATCCACCCTGATTTCTTTGGAAT
GACCAGTTTATGGAACAGTGGGGGAACCATGGTGGATTTGGGTAGAAGATCCTACAAATGACCATATTT
ATCACTCGGAGTACTTTCTAGCTCTTAAAAACAGGTTATTAATAAGGAAGCTCAACTTCTGGTATTTAC
AATTCCTATTTTGGCCTTTGCCCTCTCAGTACTACATTCGAGCAGTGTCTGATCGATGGCTAGGAGCT
GAAGCTGTTTGCATTATCAACTTTCAACATCTGATTCTACCAGAGAGACATCCTCCCCATACAGAATTAT
TGGACCTCAACCTTTACCAATTACAGCTTTGGGGTGAAGCATATGAAGCTCTATAACTTCAGCCA
CTTTAACCCGTACAGACGCAGATATTCCACACACTGTATCACACAGACTGTAATGTTCTGCTTGGCGCC
CCCACCGGATCAGGAAAGACAGTTGCAGCTGAACTAGCCATTTTCAGAGTTTTCAACAAATATCCTACTT
CAAAGGCAGTATATTTGCACCCCTCAAAGCTCTAGTACGTGAAAGAATGGATGATTGGAAAATTAGGAT
AGAAGAAAAACTTGGTAAAAAGTTATTGAACTAACTGGGGATGTGACTCCAGACATGAAATCCATTGCT
AAGGCTGACCTTATTGTCACCACACCAGAAAAGTGGGATGGAGTTAGTCGAAGCTGGCAGAATAGAAGCT
ATGTTCCAGCAGGCAACATTTCTCATCATAGATGAGATCCATCTGCTAGGGGAGGAGAGAGGCCAGTTTT
AGAAGTCATTGTATCTCGAACAACTTTATCTCATCACACAGAAAAACCAGTTAGAATAGTTGGACTG
TCCACTGCATTAGCTAATGCTAGAGATCTTGTGACTGGCTCAACATTAAGCAGATGGGTTTGTTTAACT
TCCGACCATCAGTTCCGCCAGTTCCACTGGAAGTTCACATTCAGGGTTTCCCAGGACAACATTACTGCC
ACGCATGGCTAGTATGAACAAGCCTGCATTTACAGCAATTAGAAGTCACTCTCCAGCCAAGCCTGTTTTG
ATATTTGTCTCATCAAGACGTCAAACACGACTTACAGCCTTAGAGTTGATAGCATTTCTGGCCACTGAAG



[View online »](#)

```
AAGACCCAAAGCAGTGGTTGAATATGGATGAGCAAGAGATGGACAACATCATTGGAACAGTACGAGATTC
CAACCTCAAGCTGACTCTAGCTTTTGGAAATAGGAATGCATCATGCTGGCCTGCATGAAAGAGACCGAAAA
ACTGTAGAAGAGCTGTTTGTGAAGTGAAGTTTCAAGTTCTCATTGCTACAAGCACATTAGCATGGGGTG
TAAACTTTCCAGCACACTTAGTAATTATTAAGGGAAGTGAATATTATGATGGAAGACAAGACGTTATGT
GGATTTTCCCATCACAGATGTGCTGCAGATGATGGGACGAGCTGGGAGACCTCAGTTTGATGACCAGGGC
AAAGCTGAATTCTAGTTCATGATATAAAAAAGATTTTATAAAAAAGTTTCTTTATGAACCTTTCCCAG
TAAGATCAAGCTTATTAGGAGTGTGTCTGACCACTTAAATGCAGAGATTGCTGGAGGTACAATAACATC
AAAGCAAGATGCAATGGATTATACACCTGGACTTACTTTTTCCGGCGTCTTATCATGAATCCCAGCTAC
TACAGCTTGGGTGACGTACGCCAGGACTCCATAAACAAGTTCTGTACATCTGATTGGGACGTCTCTGG
TTGAATTGGAGCTTTCCCACTGCATTGAAGTTGGAGAGGATAATCGCACCATTGAACCACTGACATGTGG
TCTAATTGCCCTCTATTACTATTGAAGCACAAAAGTGTCAAAATGTTCAAGGACCGTTTAAACCTGAG
TGCAGCACTGAGGAAGTGTGCAATTCTGAGTGTGAGGAGTGCAGAGAAATACACAGACTTACCAGTAAGACACA
ATGAGGACCATACGAATAATGAATTGGCCAAATGTCTTCCATTGAATTAATCCTCATTCTTTGACAG
CCCTCACACCAAAGCCCATCTCTTGTCTCAAGCGCATCTCAGCCGAGCCATGCTGCCCTGCCAGATTAT
GATACTGATACAAAACAGTCTTAGACCAAGCTCTCAGAGTATGCCAGGCAATGCTGGATGTGGCTGCAA
GCCAGGGATGGCTAGTGACCGTCTGAATATCACCCACCTGATTCAGATGGTGATCCAAGCCGATGGCT
CAAGGACTCTTCTTCTCACAATACAAAACATAGAGCAGCACCCACCTTACCTTTTCAGAAATGGAAG
CCACCTGTAAGAGCTCACATGCTAAGTGCCGAACATCCATTGAGTGCCTTCTGAGCTGATCCATGCCCT
GTGAAGGGAAGGACCATGTGTTCAAGTCCATGGTATAGAGAAAGAGTTACAGCCTGCAAAAACAAAGCAGGC
ATGGAATTTCTTATCTCGCTTGCAGTGATAAATGTTGGCATAAGTGTAAAGGCTCATGGGATGACTTA
GTTGAAGGACATAATGAAGTCTCCATCTCAACTCTGACAGCAGACAAACGGGATGAAAACAAATGGATCA
AGTTGCATGCTGATCAGGAGTATGTGCTTCAAGTCAGCCTACAGAGAGTCCATTTTGGGCTTCAAAGGG
AAAACATGAGAATCACGCAGTTACTCCTCGATTTCCAAAATTAAGAGTGAAGGCTGGTTTTTATGATTA
GGAGAAGTGGATAAGAGAGAGCTGATGGCTGTAAAACGAGTAGGATTTGTTTCAACACATCATGATGCTT
CCATCTCGTTCTTACTCCTGAAACACCTGGAAGATATATCTTTACCCTGTATCTCATGAGTACTGTTA
CCTCGGCTAGACCAGCAGTATGACATTATCTCAATGCATAAAAGCAACATTTCTACAAAGGACTCT
GATGTCTTCACTGACTTGTCAAGTATAG
```

```
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

- Restriction Sites:** SgfI-MluI
- ACCN:** BC059917
- Insert Size:** 3387 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).
- 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: [BC059917](#), [AAH59917](#)

RefSeq Size: 4162 bp

RefSeq ORF: 3386 bp

Locus ID: 77987

Cytogenetics: 10 B3

Gene Summary: 3'-5' DNA helicase involved in repair of alkylated DNA. Promotes DNA unwinding to generate single-stranded substrate needed for ALKBH3, enabling ALKBH3 to process alkylated N3-methylcytosine (3mC) within double-stranded regions. Part of the ASC-1 complex that enhances NF-kappa-B, SRF and AP1 transactivation.[UniProtKB/Swiss-Prot Function]