

## Product datasheet for MC225222

### Ascc3 (NM\_198007) Mouse Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | Ascc3 (NM_198007) Mouse Untagged Clone  |
| Tag:                 | Tag Free  |
| Symbol:              | Ascc3   |
| Synonyms:            | ASC1p200; B630009I04Rik; BC023451; D430001L07Rik; D630041L21; Helic1; RNAH      |
| Vector:              | pCMV6-Entry (PS100001)  |
| E. coli Selection:   | Kanamycin (25 ug/mL)  |
| Cell Selection:      | Neomycin  |
| Fully Sequenced ORF: | >MC225222 representing NM_198007<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCTCTACCTCGGCTCACAGGAGCCTTGCCTCCTTTCAAATGTCACCAAGCAAGATAATTACAATG  
AAGAAGTAGCTGACTTGAAGTTGAAGCGATCTAACTTCATGAACAAGTTTTAGATTTTGGCCTTACATG  
GAAGAAGATAGTAAATTTTGAATGAAAAGCTAGAGAAGAATAAAATGCAAAATATAAATGAAGACTTA  
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TCTTACATGAAATCCGCCAACACTTTCATCAAGGTGTTATTA AAAAGAATGAGTTTAAGATTGTGTATGT  
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 CTTTACTCCTGAAACACCTGGAAGATATATCTTACCCTGTATCTCATGAGTACTGTTACCTCGGCCTA  
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 CTGACTTGTCAGTATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_198007
- Insert Size:** 6597 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:** [NM\\_198007.2](#), [NP\\_932124.2](#)
- RefSeq Size:** 7477 bp
- RefSeq ORF:** 6597 bp
- Locus ID:** 77987

UniProt ID: [E9PZJ8](#)

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]