

## Product datasheet for **MC203855**

### **Ska1 (NM\_025581) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ska1 (NM_025581) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ska1
Synonyms:	2810433K01Rik; AV117428
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC019940  
 TCGACCCACGCGTCCGCCACGCGTCCGCGCAAGGTCGCTGGCTCCGAAGCCGCCGAAGAGGCATCGCT  
 TAGCAGGTTCCGGGAGCGGGCGACTCGGAGGGTTGGCCCCGCTTCCCCGTTCCAGCCTGCGCAAAATC  
 ACGCTTAAAGGATGGACTCAGAGCTAGAAGACTTATGCTCTTATGTTAATGAGAAGATTGGAATATTTAA  
 GAAAATCTGTGATAAGAAATCTTGGCCAGGACCCTGCCTTGAAGACCACCTAAGTAAAATAGGAGAT  
 GAGATCATTGCAGTAAATGAGCTTCTAAATAAATTTGAATTGGAATTCAGTATCAAGAACAACCTAACA  
 GTTCACTCAAGGAGCTCTGTGAATCTCTTAGAGAAGAGTGTGAAGATGTGGAACATCTCAAGAACACGT  
 CCTCCCCATCTGCCTCAAGTGACGGCGACCCAGAGCTTAGTTTACAAGCCCGAGCCGGATCCTAAAGAG  
 TCAGACAAGCTGAGGAGCTGGACTGCCGAAGAAGCCCCCAGAGAGCAGAGAGTTATCAAGGAAATGC  
 AATTTATAACTATGGATGAATTCAGTGACGTTCTGCGTACATGAAATCCCGTTTAAACATATTGTCAAAT  
 TAATGATATTATAAGGAAATTAACAAGGCAGTAGTTAGCAAATAAAGATTATGCATCAACCAAAAGCA  
 TCTATGAGCTCTGTGAAGAGAAATCTCTACCAGAGATTTAATGAAGAAACGAAGGACACGAAAGGTC  
 ATCACTTCATCGTGAAGCTGACATAAAGGAATTCACGGCTTTGAAAGTTGACAAGAGGTTTTATGTGAT  
 CATGCACATTTTCCGGCATTGCCACAGACTGTCAGAGGTCGAGGGGGAGGACTTACCCGATACGTCATC  
 ACCTGAGGCTTTTGAAGACTCGGACTGATTGGCAGCAGGGTATCGAGGGGGGCTTTGAAATTTTCATGTA  
 TGTTTTAGCTTCTCCATTTCTGGCCTTGTGTTACAGAAGTAAAACCTTTGGATAAAGCATATATATT  
 TTCAAAACGTAAGCTTCTAGGAACGTGGGTGAAGCTGGAGCTCAAGCACAGTAAAGCCAGTTAGGAAG  
 ACTGACTCGTGTGGAACCTGTGTGTATAGGAGTCAGGGGATCATGAGGCCAGGAGGAGGATCTGGAAA  
 AGTGCGGAGAAAAGGAAACAGAGAAGGCAGTGGACCGCTGTGATAGAGCAGGAGGAAAGACCGTCTGGG  
 AACAGCCAGGGGAAGGGTGGCAAGCACTTGGGCAGGAGGTGGATCAGGATAAAGTGCATGCCACAAGAT  
 ATAAAAATGCAGTAAACAGGACTCATTTCTTTGTGTGCTAACATAAAAAATTAATTTAAAAATCCCTGCCT  
 TTCAGCAAATATTCAGGCACTGCCCTGTCAAGCCTCTGCATGAGTTGTATAATGGACAGCGTGTCTAGTT  
 CTGTTAAGTGCAGATACCATGAGCATAGTATGAGGTCGGGAAAGATGGTGGATACCCAGGTCCTCTGTGG  
 CGTAAAGTCTGATTACTGTTTTTCCACGTGCCCATAGAGAACAGCTTGCCTAAAATGCATTCAGTATAAG  
 CTGGAGGCTCCGAAGTACATTGAGATACTGTCACATGTATTACATATGATATGTATTACAGCTTTACGTC  
 TGGTTCCTTGTTCAGGGTTTCGAAAAATCCTTGTAAACGTCCTAAGTGGTAAGGGTGCCTTGTGTTGAA  
 CTCAGTCTTGACTGTAGCTTTCAAACGCTTTGAAACATTTTTCTGATCAGAACATTTTTGCTCAGAT  
 TCTAGTGAGGTGATTCTTGGGCGCTTCAAGGCGGGCACTAGTTACCAAATACTAAGCCATGACTAGGA  
 AGTTGCAGTTTGGAGCCATTCTCCTGCTCCCGGGAGGGAGACACCCTTGTTCACATCCGGCTCAGCA  
 ACTCAGTTACAGGGGAGATTTCTGTCTCGAAAGCCAAAACCACTTGGTCAAAGCTGTCAAGTTCTGCT  
 GCCTGATGAGGCTAGAGATGTTTGGTCATGCCACAGGCTTCGCTCTTTTAAAAATTAATTTAAAAAAAT  
 CACTGCTCTGGGCTCCATGCAGGGACACCCTGTACACATCTGGCCTCAGCAACTTAGTTGCAGAGAG  
 AGAGATTTCTTGACTCTAAAGCCAGAACCACATGGCTAAAGCTGCCAAGTTCTGTTGCTTTCTGGGGCTG  
 GAGTATGGCCCTGTTGTTTCAAGTATAGATCTTACCAGCGGTCTGGTTTTGATAGTTTCTTCACTGCCTAA  
 GCATGGCTGTCTTGAACCTGCTCTGTAGACCAGGCTGCTTGAACCTCAGAGATCTGCATACCCCTGTC  
 TTCTAAGTGTGGAACCTAAAGGCGTGTACCACCCACCACCTGGACCTAAACTTTCCCTTAATTCCTTT  
 TCATTTTACATCGTTGTAAGCATGGCCACTGTGCCTCACGATATGGATTAAGGTTTCGTGTTTCATCCACA AAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_025581
- Insert Size:** 765 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:** [BC019940](#), [AAH19940](#)

**RefSeq Size:** 2530 bp

**RefSeq ORF:** 765 bp

**Locus ID:** 66468

**UniProt ID:** [Q9CPV1](#)

**Cytogenetics:** 18 E2

**Gene Summary:** Component of the SKA1 complex, a microtubule-binding subcomplex of the outer kinetochore that is essential for proper chromosome segregation. Required for timely anaphase onset during mitosis, when chromosomes undergo bipolar attachment on spindle microtubules leading to silencing of the spindle checkpoint. The SKA1 complex is a direct component of the kinetochore-microtubule interface and directly associates with microtubules as oligomeric assemblies. The complex facilitates the processive movement of microspheres along a microtubule in a depolymerization-coupled manner. Affinity for microtubules is synergistically enhanced in the presence of the ndc-80 complex and may allow the ndc-80 complex to track depolymerizing microtubules. In the complex, it mediates the interaction with microtubules.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.