

Product datasheet for **RN215228**

Ska2 (NM_001009624) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ska2 (NM_001009624) Rat Untagged Clone
Tag: Tag Free
Symbol: Ska2
Synonyms: Fam33a; RGD1307084
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN215228 representing NM_001009624
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGGCGGAGGTCGATAAGCTGGAAGTATGTTCCAGAAAGCTGATTCTGATTTGGATTACCTTCAGT
ATAGGCTGGAATATGAAGTCAAGATTAATCACCCACACTCAGCAGGAGAGAAAAATGCAGTTGCAATTTT
AAAAGAATTATCAGCAATAAAGTCTCGATATCAAGCTTTATGTGCACGCTTTAAGACAGTTTCTGTTGAG
CAAAAAGAGACCAAGAGCTGCATTTGTGCTATTTTGAACAAGACAATGACCATGCTACAAGAACTACAGA
AGCAAACAACCTGGAGCTAACTCTGCTGACAGAAGAGGAGAAAGCTGTGACAGAGCGACTGAAAGTCTCA
CGTGCCAGACGTAGAGAACGGAATTTTACAAAGGAACTTTGATGGCGAAAAGATCAGCTCCAAGAGATC
CAGCGAGGTGCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001009624
Insert Size: 435 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).



[View online »](#)

| | |
|-------------------------------|--|
| 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: | <ol style="list-style-type: none">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: | <u>NM_001009624.1</u> , <u>NP_001009624.1</u> |
| RefSeq Size: | 1214 bp |
| RefSeq ORF: | 435 bp |
| Locus ID: | 287598 |
| UniProt ID: | <u>Q5I0J4</u> |
| Cytogenetics: | 10q26 |
| 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. In the complex, it is required for SKA1 localization. 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.[UniProtKB/Swiss-Prot Function] |