

Product datasheet for **RR215228**

Ska2 (NM_001009624) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ska2 (NM_001009624) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ska2
Synonyms: Fam33a; RGD1307084
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215228 representing NM_001009624
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGGCGGAGGTCGATAAGCTGGAAGTATGTTCCAGAAAGCTGATTCTGATTGGATTACCTTCAGT
ATAGGCTGGAATATGAAGTCAAGATTAATCACCCACACTCAGCAGGAGAGAAAAATGCAGTTGCAATTTT
AAAAGAATTATCAGCAATAAAGTCTCGATATCAAGCTTTATGTGCACGCTTTAAGACAGTTTCTGTTGAG
CAAAAAGAGACCAAGAGCTGCATTTGTGCTATTTTGAACAAGACAATGACCATGCTACAAGAACTACAGA
AGCAAACAAACCTGGAGCTAACTCTGCTGACAGAAGAGGAGAAAGCTGTGACAGAGCGACTGAAAGTCTCA
CGTGCCAGACGTAGAGAACGGAATTTTACAAGGAACTTTGATGGCGAAAAGATCAGCTCCAAGAGATC
CAGCGAGGTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215228 representing NM_001009624
Red=Cloning site Green=Tags(s)

MEAEVDKLELMFQKADSDLDYLQYRLEYEVKINHPHSAGEKNAVAILKELSAIKSRYQALCARFKTVSVE
QKETKSCICAILNKTMTMLQELQKQTNLELTL TEEKAVTERLKSHVPDVENGILQRNFDGEKISSKEI
QRGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

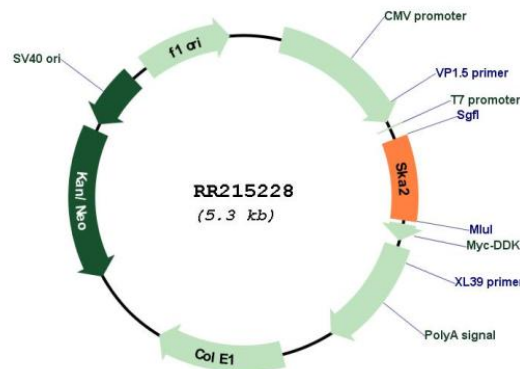


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001009624

ORF Size: 432 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:	<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, NP_001009624.1</u>
RefSeq Size:	1214 bp
RefSeq ORF:	435 bp
Locus ID:	287598
UniProt ID:	<u>Q5I0J4</u>
Cytogenetics:	10q26
MW:	16.5 kDa
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]