

Product datasheet for **SC107420**

SKA2 (NM_182620) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SKA2 (NM_182620) Human Untagged Clone
Tag:	Tag Free
Symbol:	SKA2
Synonyms:	FAM33A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107420 sequence for NM_182620 edited (data generated by NextGen Sequencing) ATGGAGGCGGAGGTCGATAAGCTGGAAGTATGTTCCAGAAAGCTGAGTCTGATCTGGAT TACATTCAATACAGGCTGGAATATGAAATCAAGACTAATCATCCTGATTCAGCAAGTGAG AAAAATCCAGTTACACTCTTAAAGGAATTGTCAGTGATAAAGTCTCGATATCAAACCTTG TATGCCCGCTTTAAACCAGTTGCTGTTGAGCAGAAAGAGAGTAAGAGCCGCATTTGTGCT ACTGTGAAAAAGACTATGAATATGATACAAAACTACAGAAGCAAACAGACCTGGAGCTG TCACCACTGACTAAAGAAGAGAAAAGTGCAGCAGAGCAATTCAAATTTACATGCCAGAT TTATGA

Clone variation with respect to NM_182620.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_182620 unedited TTGTATACGACTCCTATAGGCGGCCGNAATTCGCACGAGGGCGGAAGTCAACTATTCA ACTGGNAGCGGAGGTCCGATAAGCTGGAAGTGTGTTCCAGAAAGCTGAGTCTGATCTGGA TTACATTTCAATACAGGCTGGAATATGAAATCAAGACTAATCATCTGATTCAGCAAGTGA GAAAAATCCAGTTACTACTCTTAAAGGAATTGTCAGTGATAAAGTCTCGATATCAAACCTT GTATGCCCGCTTTAAACCAAGTTGCTGTTGAGCAGAAAGAGAGTAAGAGCCGCATTTGTGC TACTGTGAAAAAGACTATGAATATGATACAAAACTACAGAAGCAAACAGACCTGGAGCT GTCACCCTGACTAAAGAAGAGAAAACTGCGGCAGAGCAATTCAAATCTTACATGCCAG ATTTATGAAGAAATGGACTTGGAAAGGAAATTCTAACAGAGAAGAGCTTAATTCGGGAGA AATTTAGGAAGATGCTTGTGTTAACCTTGATGTCTAGAGATTGGGGGCTGGTGAAGGGGG TTTGGCTTCAATGACTGGATAATGATATCTTTCATGAGAGAGATTATAAGAAGAAGGGCA GATAATATATGAATAAAGTTCAGCCAAAAGGATCAAATGAGAATAAACGATTTAAATAT ATGTACACACGCATGCACACACACTTAGTCTTGAATTTTCAGGCCAGAAATTTCTAAC ACTATTTTGCATCTGTTTTCTTTTTCTAAGTCATGATAATATAGATGTTCTGGTCTATCA TAAAAGATGNTTATGTACATTTTCATCATTTCGGTATGTGGCTTTGTAATTAATATANGC AAAACATTGTGTTATACATGAAATAATTCATTTGGAAATGTGATNGACATGTGGTCACAT ATGTTGAGACTGCTTATGTGACN
Restriction Sites:	NotI-NotI
ACCN:	NM_182620
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:	<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_182620.1</u> , <u>NP_872426.1</u>
RefSeq Size:	1113 bp
RefSeq ORF:	366 bp
Locus ID:	348235
UniProt ID:	<u>Q8WVK7</u>
Cytogenetics:	17q22

Gene Summary:

Component of the SKA1 complex, a microtubule-binding subcomplex of the outer kinetochore that is essential for proper chromosome segregation (PubMed:17093495, PubMed:19289083, PubMed:23085020). Required for timely anaphase onset during mitosis, when chromosomes undergo bipolar attachment on spindle microtubules leading to silencing of the spindle checkpoint (PubMed:17093495). The SKA1 complex is a direct component of the kinetochore-microtubule interface and directly associates with microtubules as oligomeric assemblies (PubMed:19289083). The complex facilitates the processive movement of microspheres along a microtubule in a depolymerization-coupled manner (PubMed:17093495, PubMed:19289083). In the complex, it is required for SKA1 localization (PubMed:19289083). 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 (PubMed:23085020).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and it encodes the longer protein (isoform 1).