

## Product datasheet for **SC126415**

### SKA1 (NM\_145060) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SKA1 (NM_145060) Human Untagged Clone
Tag:	Tag Free
Symbol:	SKA1
Synonyms:	C18orf24
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_145060 edited
CGGAAGCATGGATGTGCGCTGCGCTGCGCTAGGGCGCGGCGGGCGGTTGAATTTTGGCT
TACAGAGTCCCGTCTCACCATCTGGGCTTCCAACGGAGACTGCGGTATCCGCGGCTGGA
GACCCAGCGGCGAGTAGCCTTTTGTCCCGGACGGACTTGAGAGGCTTAAAGGATGGCCT
CGTCAGATCTGGAACAATTATGCTCTCATGTTAATGAAAAGATTGGCAATATTAAGAAAA
CCTTATCATTAAAGAACTGTGGCCAGGAACCTACCTTGAAAACGTATTAATAAAATAG
GAGATGAGATCATTGTAATAAATGAACCTCTAAATAAATGGAATTGGAATTCAGTATC
AAGAACAACCAACAATCACTCAAGGAACCTGTGAATCTCTTGAAGAAGATTACAAAG
ACATAGAACATCTTAAAGAAAACGTTCCCTCCATTTGCCTCAAGTAACAGTAACCCAGA
GCTGTGTTAAGGGATCAGATCTTGATCCTGAAGAACCAATCAAAGTTGAAGAACCTGAAC
CCGTAAAGAAGCCTCCCAAAGAGCAAAGAAGTATTAAGGAAATGCCATTTATAACTTGTG
ATGAGTTCAATGGTGTTCCTTCGTACATGAAATCCCGCTTAACCTATAATCAAATTAATG
ATGTTATTAAGAAATCAACAAGGCAGTAATTAGTAAATATAAAATCCTACATCAGCCAA
AAAAGTCTATGAATTCTGTGACCAGAAATCTCTATCACAGATTTATTGATGAAGAAACGA
AGGATACCAAAGTTCGTTATTTTATAGTGAAGCTGACATAAAGGAGTTCACAACTTTGA
AAGCTGACAAGAAGTTTACGTGTTACTGAATATTTTACGACACTGCCGGAGGCTATCAG
AGGTCCGAGGGGGAGGACTTACTCGTTATGTTATAACCTGAGTCCCTTGTGAACCTTTTGA
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ACCCAGGGGCTTGCTTTGTACAGCAGGCTAGAGTGCAGTGGCGCAAACATGGCTCACTGC
AGCCTCAACCTCCCAGGCTCAAGTGATCCTCCCACCTCAGCCCCCTGAATGGCTGGGACT
ACAAGCGTGCCACCACCATGCCTGGCTAATTTTTGTATTTTTTGGAGAGATGGGGTTTCCAC
CATGTTGCCTAGGCTGGTCTTGAGCTCCTGAGCTCAAACAATCCACCCTCCTCAGCCTCC
CAAAGTCTGGGATTACAGGCTTGAGCCACCACCTGACCTATTCTTGTCTTATAAAA
AATAAACTTTTTTGGATAAAGCTTATTTCTTGTTTTTTCTTTTTCTTTTTTTTTTTTTT
GAGACAGTCTCGCTCTTTCACCCAGGCCGACTGCAGCGGCGCTATCTCGGCTCGCTGCA
AACTCTGCCTCCCAGGTTACGCCATCCTCCTGCCTCAGTACTCAGGAGAATTGCTTGA
ACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGTCTGGGCAA
CAGAGCGAGACTCCATCTCAGAAAAAAGAAAAAAGACTGGGTACAGATGTGATATTGG
AAGAAAAAGATCAAGCTGATGAGGTTAGGATACCCAGGCCCTTTGGACTTAAAGTCACT
AGTGTCTAAATCCATCGATGGCATTTCAGTCTATAGGTAACCTCCTGGAAGCTGGATT
TGGAGACAGTTTATCATCTGATTATTGGCTTTTGTATAGGTCCTTAGGGAGCAGCTTAC
CTGAAATGCATTTAGTGTACACCAGTCTGTAACTTCAACCTGTAATGAAAGTGAATAA
ATGTACATTGAGTTGATGTGATAATGTGATATAATAAGAAATATATATTTGATCTTCCTA
TCTAGTTCCTTGTTCAGAGCTCCTAAAACCTTGTAAATTTCCAAAGTGTGGAGTACATC
TTTTGTCTAGTATTTGGTCTTTGACCCAGTTCCTGACACAAAGCTCCTAAATTCCTTT
AAATTTCCAGTGATAGGAGAATTTTTTGTCTAATGAGGTCCTCTTGTGGGCACCTG
GATAACTCAGGATGGGGCTGCTCACAAGACCACATCATGATTGGAAGTTTCAAACCTTT
CAGTCTCCACCTCCAGAGAGGGGAGAGGGGCTGGAGATTTGTGTCAATAATCCATCAGG
CCTATGTCAACAAGACATAATCCGTTAACTATGGAGTTCAGGGAGCTTCAGGGTTGGCAA
ACATTTTGATGTGCCAGGAAGGTGACGCACTCCAGCTTTATGAAGTCAGCAAGTCTGTG
CTCAGGATGCTTCTGGACCTTGCCCGAGTACCCCTTCATGTGGCTGTTGTTTCTATCTGTA
TCCTTTGTAGTAGCCTTAAATAAACTGTTAAACAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_145060 unedited GGTTCATGATATTTGTCAATACGCACTNCACTNAGAGGGNCGGACCGCGTAATTCAGAAG CTGGCTACCGGTGCCGTAATTCCTGGGATATCGTCGACCCACGCGTCCGCGGAAGCATG GATGTGCGCCTGCGCTGCGCTAGGGCGCGGGCGGTTTGAATTTTGTACAGAGTCC CGTCTCACCATCTGGGCTTCCAACGGAGACTGCGGTATCCGCGGCTGGAGACCCAGCGG CGAGTAGCCTTTTGTCTCCCGACGGACTTGAGAGGCTTAAAGGATGGCCTCGTCAGATCT GGAACAATTATGCTCTCATGTTAATGAAAAGATTGGCAATATTAAGAAAACCTTATCATT AAGAAACTGTGGCCAGGAACCTACCTTGAAAACCTGATTAAATAAAATAGGAGATGAGAT CATTGTAATAAATGAACTTCTAAATAAATTGGAATTGGAATTCAGTATCAAGAACAAAC CAACAATCACTCAAGGAACCTGTGAATCTCTTGAAGAAGATTACAAAGACATAGAACA TCTTAAAGAAAACGTTCTTCCCATTTGCCCTCAAGTAACAGTAACCCAGAGCTGTGTTAA GGGATCAGATCTTGATCCTGAAGAACCAATCAAAGTTGAAGAACCTGAACCCGTAAGAA GCCTCCCAAGAGCAAAGAAGTATTAAGGAAATGCCATTTATAACTTGTGATGAGTTCAA TGGTGTTCTTTCGTACATGAAATCCCGCTTAACCTATAATCAAATTAATGATGTTATTAA AGAAATCAACAGGCGAGTAATTAGTAAATATAAAATCCTACATCAGCCAAAAAAGTCTAT GAATTCTGTGACCAGAAATCTCTATCACAGATTTATTGATGAAGAAACGAAGGATACCAA AGGTCGTTATTTTATAGTGGAAGCTGACATANAAGAGTTCACAACCTTTGAAAGCTGANCA A
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_145060
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_145060.1</a> , <a href="#">NP_659497.1</a>
<b>RefSeq Size:</b>	2511 bp
<b>RefSeq ORF:</b>	768 bp
<b>Locus ID:</b>	220134
<b>UniProt ID:</b>	<a href="#">Q96BD8</a>
<b>Cytogenetics:</b>	18q21.1

**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: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). In the complex, it mediates the interaction with microtubules (PubMed:19289083, PubMed:23085020).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses a different splice site in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.