

## Product datasheet for **SC324643**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_145060.1  
 CCGAAGCATGGATGTGCGCCTGCGCTGCGCTAGGGCGCGGCGGGCGGTTGAATTTTGGCT  
 TACAGAGTCCCGTCTCACCATCCTGGGCTTCCAACGGAGACTGCGGTATCCGCGGCTGGA  
 GACCCAGCGGCGAGTAGCCTTTTGTCCCGGACGGACTTGAGAGGCTTAAAGGATGGCCT  
 CGTCAGATCTGGAACAATTATGCTCTCATGTTAATGAAAAGATTGGCAATATTAAGAAAA  
 CCTTATCATTAAAGAACTGTGGCCAGGAACCTACCTTGAAAACGTATTAATAAAATAG  
 GAGATGAGATCATTGTAATAAATGAACCTCTAAATAAATGGAAATGGAAATTCAGTATC  
 AAGAACAACCAACAATTCACTCAAGGAACCTGTGAATCTCTTGAAGAAGATTACAAAG  
 ACATAGAACATCTTAAAGAAAACGTTCCCTTCCATTTGCCTCAAGTAACAGTAACCCAGA  
 GCTGTGTTAAGGGATCAGATCTTGATCCTGAAGAACCAATCAAAGTTGAAGAACCTGAAC  
 CCGTAAAGAAGCCTCCCAAAGAGCAAAGAAGTATTAAGGAAATGCCATTTATAACTTGTG  
 ATGAGTTCATGGTGTTCCTTCGTACATGAAATCCCGCTTAACCTATAATCAAATTAATG  
 ATGTTATTAAGAAATCAACAAGGCAGTAATTAGTAAATATAAAATCCTACATCAGCCAA  
 AAAAGTCTATGAATTCTGTGACCAGAAATCTCTATCACAGATTTATTGATGAAGAAACGA  
 AGGATACCAAAGTTCGTTATTTTATAGTGAAGCTGACATAAAGGAGTTCACAACTTTGA  
 AAGCTGACAAGAAGTTTACGTGTTACTGAATATTTTACGACACTGCCGGAGGCTATCAG  
 AGGTCCGAGGGGGAGGACTTACTCGTTATGTTATAACCTGAGTCCCTTGTGAACCTTTTGA  
 ACATACCAACAGGGTATAGAGTATAGAGGCTATTTCTATAATTTTCTTATATATAATTTT  
 TTTAACTTTAATCTTTTTTGTTCCTTTTTTTTTTTTTTGGAGACAGGATCTTGCTTTGTC  
 ACCCAGGGGCTTGCTTTGTACAGCAGGCTAGAGTGCAGTGGCGCAAACATGGCTCACTGC  
 AGCCTCAACCTCCCAGGCTCAAGTATCCTCCCACCTCAGCCCCCTGAATGGCTGGGACT  
 ACAAGCGTGCACCACCATGCCTGGCTAATTTTTGTATTTTTTGGAGAGATGGGGTTTCCAC  
 CATGTTGCCTAGGCTGGTCTTGAGCTCCTGAGCTCAAACAATCCACCTCCTCAGCCTCC  
 CAAAGTGTGGGATTACAGGCTTGAGCCACCACCTGACCTATTCTTGTCTTATAAAA  
 AATAAACTTTTTTGGATAAAGCTTATTTCTTGTTTTTTCTTTTTCTTTTTTTTTTTTT  
 GAGACAGTCTCGCTCTTTCACCCAGGCCGACTGCAGCGGCGCTATCTCGGCTCGCTGCA  
 AACTCTGCCTCCCAGGTTACGCCATCCTCCTGCCTCAGTACTCAGGAGAATTGCTTGA  
 ACCTGGGAGGTGGAGGTTGCAGTGCAGCGAGATCGTGCCACTGCACTCCAGTCTGGGCAA  
 CAGAGCGAGACTCCATCTCAGAAAAAAGAAAAAAGACTGGGTACAGATGTGATATTGG  
 AAGAAAAAGATCAAGCTGATGAGGTTAGGATACCCAGGCCCTTTGGACTTAAAGTCACT  
 AGTGTCTAAATCCATCGATGGCATTTCAGTCTATAGGTAACCTCCTGGAAGCTGGATT  
 TGGAGACAGTTTATCATCTGATTATTGGCTTTTGTATAGGTCCTTAGGGAGCAGCTTAC  
 CTGAAATGCATTTAGTGTACACCAGTCTGTAAACTTCAACCTGTAATGAAAGTGAATAA  
 ATGTACATTGAGTTGATGTGATAATGTGATATAATAAGAAATATATTTGATCTTCCTA  
 TCTAGTTCCTTGTTCAGAGCTCCTAAAACCTTGTAAATTTCCAAAGTGTGGAGTACATC  
 TTTTGTCTAGTATTTGGTCTTTGACCCAGTTCTGACACAAAGCTCCTAAATTCCTTT  
 AAATTTCCAGTGATAGGAGAATTTTTTGTCTAATGAGGTCCTCTTGTGGGCACCTG  
 GATAACTCAGGATGGGGGCTGCTCACAAGACCACATCATGATTGGAAGTTTCAAACCTT  
 CAGTCTCCACCTCCAGAGAGGGGAGAGGGGCTGGAGATTTGTGTCAATAATCCATCAGG  
 CCTATGTCAACAAGACATAATCCGTTAACTATGGAGTTCAGGGAGCTTCCAGGGTTGGCAA  
 ACATTTTGATGTGCCAGGAAGGTGACGCACTCCAGCTTTATGAAGTCAAGCAAGTCTGTG  
 CTCAGGATGCTTCTGGACCTTGCCCCAGGTACCCCTTCATGTGGCTGTTGTTTCTCTGTA  
 TCCTTTGTAGTAGCCTTAAATAAACTGTTAAACAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_145060

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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
<b>Gene Summary:</b>	<p>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]</p> <p>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.</p>