

Product datasheet for RC222931

SKA3 (NM_145061) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SKA3 (NM_145061) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SKA3
Synonyms:	C13orf3; RAMA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222931 representing NM_145061 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGACCTATCCGGAGCTTCTGCGGGAAGCTGCGGTCTCTGGCCAGCACGCTGGACTGCGAGACGGCCC
 GGCTGCAGCGAGCGCTGGACGGAGAGGAAAGCGACTTTGAAGATTATCCAATGAGAATTTTATATGACCT
 TCATTGAGAAGTTCAGACTCTAAAGGATGATGTTAATATCTTCTTGATAAAGCAAGATTGGAATCA
 GAAGGCATTGATTCATAAAGGCAACAAAAGTACTAATGAAAAAATTCATGGATATTATGAAAAA
 GAGAGTATTTCCAGAAGTATGGATATAGTCCACGTGTCAAGAAAAATTCAGTACAGGCAAGAAGCCAT
 TAACTCTGACCCAGAGTTGTCTAATTGTGAAAAATTTTCAGAAGACTGATGTGAAAGATGATCTGTCTGAT
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 AAGATTACACAATGGGACTTAAAAATGCGAGGAATAATAAAAGTGAGGAGGCCATAGATACAGAATCCAG
 GCTCAATGATAATGTTTTGCCACTCCCAGCCCCATCATCCAGCAGTTGAAAAAAGTATGCCGAATAT
 ACCAAGTCTCCTTTGGTACCTACATTCTGTACTCCTGGTTTGAATTTCCATCTACAAAGAACAGCATAG
 CTTTGGTATCCACAAATTACCCATTATCAAAAACAAATAGTTTCATCAAAATGATTTGGAAGTTGAAGATCG
 TACTTCGTTGGTTTAAATTCAGACACATGCTTTGAGAATTTAACAGATCCCTCTTCACCTACGATTTCT
 TCTTATGAGAATCTGCTCAGAACACCTACACCTCCAGAAGTAACTAAATTCAGAAGATATTCTCCAGC
 TTTTATCAAAATACAACCTAAACCTAGCTACTCCAATAGCAATTAAGCAGTGCCACCCAGTAAAGGTT
 CCTTAAACATGGACAGAACATCCGAGATGTCAGCAACAAAGAAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC222931 representing NM_145061
 Red=Cloning site Green=Tags(s)

MDPIRSFCGKLRLSLASTLDCETARLQRLDGEESDFEDYPMRILYDLHSEVQTLKDDVNILLDKARLENQ
 EGIDFIKATKVLMEKNSMDIMKIREYFQKYGYSPRVKNSVHEQEAINSDPELSNCENFQKTDVKDDLSD
 PPVASSCISEKSPRSPQLSDFGLERYIVSQVLPNPPQAVNNYKEEPIVTPPTKQSLVKVLKTPKCALKM
 DDFECVTPKLEHFGISEYTMCLNEDYTMGLKNARNNKSEEAIDTESRLNDNVFATPSPIIQLEKSDAEY
 TNSPLVPTFCTPGLKIPSTKNISIALVSTNYPLSKTNSSNDLEVEDRTSLVLSNDSCTCFENLTDPSSTPIS
 SYENLLRTPTPPEVTKIPEDILQLLSKYNSNLATPIAIKAVPPSKRFLKHGQNIRDVSNKEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6478_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145061

ORF Size: 1236 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145061.3](#), [NP_659498.2](#)

RefSeq Size: 2907 bp

RefSeq ORF: 1239 bp

Locus ID: 221150

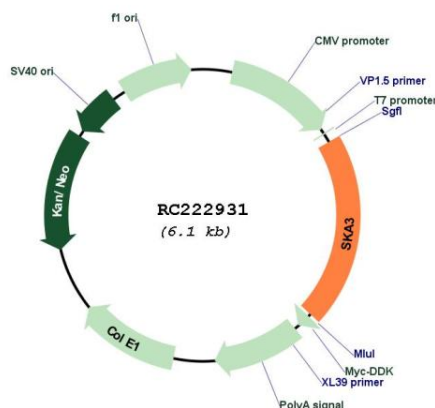
UniProt ID: [Q8IX90](#)

Cytogenetics: 13q12.11

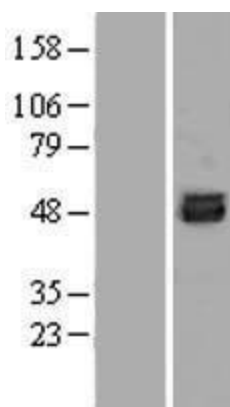
MW: 46.2 kDa

Gene Summary: This gene encodes a component of the spindle and kinetochore-associated protein complex that regulates microtubule attachment to the kinetochores during mitosis. The encoded protein localizes to the outer kinetechore and may be required for normal chromosome segregation and cell division. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

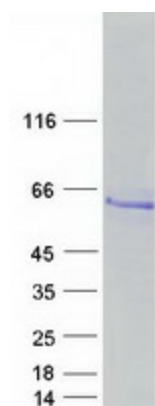
Product images:



Circular map for RC222931



Western blot validation of overexpression lysate (Cat# [LY408058]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222931 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SKA3 protein (Cat# [TP322931]). The protein was produced from HEK293T cells transfected with SKA3 cDNA clone (Cat# RC222931) using MegaTran 2.0 (Cat# [TT210002]).