

Product datasheet for **SC102821**

KIAA1731 (CEP295) (AK095218) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA1731 (CEP295) (AK095218) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIAA1731
Synonyms:	KIAA1731
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC102821 sequence for AK095218 edited (data generated by NextGen Sequencing)

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ATGGGGCAGCTCAGAGACTGGTTTCCTAATACACAAGACCTAGCAGGAAATGATCAAGAA
AATATTAGGCATGCAGATAGGAACAACTCTGATGATAATCATTGGCTTCAGAAGATACT
AGTGCCAAGCAAAGTGGTAAACCAGGTATTTATGAAGACAGAGACCCCTGCGAGTCTCA
ATAAGCCGAGAACAAAGTTTCTTTGGGAGCCCACTGGCCCATGATCCGTTTAGTTGTCTT
CAACTGGTTGGCCAAGAGAATGTCTGTGGTGATGACTATGATGAAGCAGTTAAGCTGAAG
GAATCTGTTGTTGAAAATCATGCAGTGTTAAGTTATGCTGTGGAGGAAGAACATGCATAT
TTGGGTCCAACCTGTGAAGCCAGATGATAAGGCTAAAACACTGTCTTATGAACCATTATCT
TCAGCAACTGTTTCCACTGGGAGCCTTTTAAGTTATGAAAACACAGATTTGAGCCTTACA
GATCCAGAGTCATTTTCAGAGCACATGGATGATAGCAAGCAAGAATCTACCACCAGTAA
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CAGAACTCTTCAGACGTTCAATAATCTCTGTTGCCTGCAGTGGATGAACTACATGTGGT
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TCTTCCCAAGGCATGAAAAATCAGAACTATCCCTCTGAAGAACATACTGAAATATTACAA
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Clone variation with respect to AK095218.1
202 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for AK095218 unedited
 NGGGAGTTCACCTTTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGGGACT
 TCAGAACAGTTGGATCTACAAANAGAAGTTCTGCATTATAGCCAGAAAGCCCAGGAAAAA
 TTGCTTGTACAGAGACAAACAGCATTGCAGCAGCAGATACAGAAACATGAAGAGACTTTG
 AAGGATTTCTTTAAAGACAGTCAGATAAGTAAGCCACAGTTGAAATGATTTAAAAACC
 CAGAAGATGGGCGAGCTCAGAGACTGGTTTCTAATACACAAGACCTAGCAGGAAATGAT
 CAAGAAAAATATTAGGCATGCAGATAGGAACAACCTGATGATAATCATTGGCTTCAGAA
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 GCATATNTGGGTCCAACGTGAAGCCAGATGATAAGGCTAAAACACTGTCTTATGAACC
 ATTATCTTCAGCAACTGTTTCCACTGGGAGCCTTTTAAGTTATGAAAACACAGATTTGAG
 CCTTACAGATCCAGAGTCATTTTCAGAGCACATGGATGATAGNCAGCAAGAATCTACCAC
 CAGTAAAGAAGAGGAAAAACAATATTATAAGTCCATAGTTCCTTACACAAGATATTTAT
 CAGCGGCAGACTCTTNCAGACGTNATAAAATCTCTGTGCCTGCAGTGGATGAACTACTTG
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3' Read Nucleotide Sequence:

>OriGene 3' read for AK095218 unedited
 NTTGGGTTTACTATGNNACCGCGCCGCATNCTANGATCGGATTTTTTTTTTTTTTTTTT
 CCTCGAAAACAATTTATTGACTTTAAATAATTTTGTCTAATGCTACATATACACAATTAA
 AAAACCTTTACACTATTTCTAGAAAGTCAGCATGTATTTTGGCTCGAAGTTTCTCTAGT
 GTTTTCTTATGGAATCTTTTGCCCTTGCTCTGTTTGGGCATAAGCTTCTTGTTTGT
 TTTTCTTCTTTTGTGTTTCACTTCAGCTAGTTGATTGTATAACCTTAGACCCCTTTGG
 TGCCTTAGAGCCTGTGTAGTCTTTCTGTCTTCAGGAAAAGATGCTCTGACTTTATTCAG
 CCCTTTAGACGACTCACAGATGAACCTATAGATGGTTTCTTTAACTGTTTGTATTGA
 GAATTTTCAGAGACATGAATTTTATTCCTTATTCTTTCTGCCTCTGGTGGGATCTCTCC
 ATAAATGATTTTTCTCTTTATAAATGCTTCTTGAAGCTCCCTGGTACAGGTGAAGC
 CTGCGAGGGGTTTCTGTAGATGCTGTCTTGGTTTCTATGGAAGTTCTGATACAGCT
 GGATAATCTGAGGCTTCTGTTGCTGATACAAGAGGCAGAAACACACTCACCTGAAAGAAG
 CATTTTGTCTTCTGCTCTTCTCTTCTAGGGTTAAATTTGCAAAATCCATTTTCAGCA
 ATACTGGTATCAGTGGTGCTTATTAAAGTAAGTTCTGGTTCTTCCATTATACCATGGCCA
 GTTTCTGTTTCCACACGGGATAGAGCTCTGTAATGAAATGATCCCGAAGTTGCAAAAA
 GCCTGGATCTTCCAATTGAAAAAGTTTTTGGGGGATTTTTC

Restriction Sites:

NotI-NotI

ACCN:

AK095218

Insert Size:

2750 bp

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:

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: [AK095218.1](#), [BAC04502.1](#)

RefSeq Size: 2890 bp

RefSeq ORF: 2346 bp

Locus ID: 85459

Cytogenetics: 11q21

Gene Summary: Centriole-enriched microtubule-binding protein involved in centriole biogenesis (PubMed:20844083, PubMed:25131205, PubMed:27185865). Essential for the generation of the distal portion of new-born centrioles in a CENPJ- and CEP120-mediated elongation dependent manner during the cell cycle S/G2 phase after formation of the initiating cartwheel structure (PubMed:27185865). Required for the recruitment of centriolar proteins, such as POC1B, POC5 and CEP135, into the distal portion of centrioles (PubMed:27185865). Also required for centriole-to-centrosome conversion during mitotic progression, but is dispensable for cartwheel removal or centriole disengagement (PubMed:25131205). Binds to and stabilizes centriolar microtubule (PubMed:27185865).[UniProtKB/Swiss-Prot Function]