

Product datasheet for **SC105823**

KIAA1731 (CEP295) (AL833615) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA1731 (CEP295) (AL833615) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIAA1731
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for AL833615, the custom clone sequence may differ by one or more nucleotides

```
GAAGATTTTAAAAATTCAACATACTTATAGATGGTTTCTCTTAACTGTTTTGATTGAGAATTTTCAGA
GACATGAATTTTATTCCTTATTTCTTTCTGCCTCTGGTGGGATCTCTCCATAAATGATTTTTCTCTTT
ATAAATGCTTCTTGTAAGCTCCCTGGTACAGGTGTAAGCCTGCGAGGGGTTTCTGCTGGGGGAAAAGAAA
TTTATGACAGAAAATAGGCAAGTATCTACTTTCCATTAGAAGTGTGGAGGCCGTCCAAGGCTTACCTGTA
GATGCTGTCTTGGTTTTCTATGGAAAGTTCTGATACAGCTGGATAATCTGAGGCTTCTGTTGCTGATA
CAAGAGGCAGAAACACACTCACCTAATGGCAAGAAAGTTCATGTTTTACTCTTTTTAAACGCTTTAAGC
GGGTCTTGCTCTGCTGTGATGAGTGCAGCGGCATGATCACACCTCACTGCAGCCTCAATCTTAGCT
GGGTCTACAGAGACCCGCCACCATGCCTGATTTTTGTATTTTTGTAGGGATTGGGTTTTGCCTGTTGC
CCAGGCTGGTCTTGAAGTGGGCTTAGGCTCCACTGCCCTCACACCTCTAGGCCTCTGTTTAGATAGCTTT
ATTCTTATGCTCCCTACTCCCTAGTAAAATTACCAGTTGTTCTGAAGTCATTTTTCAATATCTGGGA
ATAAGTTTAGGTAAGTAACTTCCAAGTGGCACTATAACACTAGGTGTATAAGATTAGTTCTGCCAGTCTTG
GAGACAGGCATAAATTGGAGTGGGGATTAAAAGAAAATGCACAATGGTTGACAGAATAGTGAAGGTTTAA
GACAAATTGAGAGCTGGTGGGGGTGTGGGTAGTTAAATGCATAGCATAAATCCCTCCAATGAGTACCT
TCTGATAAGTTGTAAGAGACAAATCAACTGGTTTGCTTGTAAATAGAAATAAATAAGGAAAGCTTAAAT
TTACCTGAAAGAGCATTTTGCTTCATTCTCGCTCTTCTCTTCTAGGGTTAAATTTGCAAAATCCATTTT
AGCAATACTGGTATCAGTGGTGCTTATTAAGTAAGTTCTGGTCTTCCATTATACCATGGCCAGTTTCT
GTTTCTGTGGACCACAATTAAGGAAAACCATGTCAAAATAGCCTTAAAGACTTAACTAATCGTTT
TGTATATAATGCACATTTTTGCAAGTGTATATAAATGTGAAAATGGAGGAAGAAAAGCAATGATTGGCA
AAGACCAACAGATCAGATTTCTTAGGCTTCCATAACTCCAGCATTGAGTTGTAGAAATCTGGAGCCTA
CTTTGGGGAGGGGATGAAATAGTGTGACAATGGACTGAAAGGTATCTACCACAATGATTACAAGCCTAAA
TGCTTGTAGTGTGGGCAAAAAATATAAATGCAGGTTGGCTGTGCCGAATTGTATCCTTTAAAGGGAGCA
GGGGTCGACTGGGCTGCTACCAATGTGGGCCACTGACTGCTAACAGATAATGTTTCAAAAGTATCTAAA
CACAACAAGAACAAAAGCAGCCACATAAAATGTGGTTTAGTTGTAATTCTTATTTTCAATCTGTTATGTT
TATTTGTGAAGGATAAACTGCACATACTGCTAGATGAAAACAGTCACCAGTTGACTGGTGTGAAAGC
AAGCAGATTATAAGTTGCTTAATATGAGGAGCAGGTTTCCAATACTTATCCAATAATGGATGAATTCAT
TGCACTGGAATGAGGCTCAACACTGAAAGTGTGAAGCACAGGCAGAACCACCATTTTTCAGGGAAGTTG
GAGAAAGGATATCTGAATTGGGGGAAAAAGGATCTTTTGTAAATACTCTCAGAAGACAGTTTTCAAATT
TTTAAGTTTCTGCATTATGCTGGATATTTCTAGTGATCACAAGCTGGATAGCAATATTAACAAGCAGTTT
TGCTTGTATTTTGTTCAGGTTTTTCTGCCAGGCATTGTGGTGTGTCCAACTACTTCGGAAGTTGAGG
CAGGAGGATCCCTTGATCCTAGGAGTTTGAGTTGAGCCTGGGTAGCATAGTGGGAAGTTTCACTCTAATT
TTAGAAGAAAAAGTTTTTCCCAAAAGGAATTTAAATGTTATTTATACAACACTGATTTCACTTACCC
AGACTGGTATAGAGCTCTGTAATGAAAATGATCCAGAAGTTGCAAAAGCTCTGATTCTCCTAGTTGAGA
TAGTTTTTTGGTGATTTTTGGAATGTCTGTTTCTGAGTGAATTCGAAATATTTTCAATTTTGTAGTGT
AAGGAATATGGTGCTGAATGAAGTCCCATCTCCACTGTTCTTACACATAATCGAGAGTCAGTTTCTCT
TACCTGTGGATTTATGTCTAAAACCTACAGGTTTCAATTTTATATCTTCAATGAGTCCTTGACTTTG
TAACATTGTAACAACCCCTCTTTTTGATAGTTCTTCAAAGCCCACTTTCTTTTCTGCTTCTAGTTGG
TGTTTTGTGAGCACTCACTAGAGTTAGAACCACATGGAGTGCTATGCTGTACATTTAACTGATCAATA
CATTAGCTTCATCAGATGAAGTGTAGACTGAAGTTAAGTTTCTATAGAAAGCTGGAAATGAACAATTTT
TTTCTGTTTTGTAATATTTTCTAGTATGTTCTTCAAGGGATAGTTCTGATTTTTTCTGCCTTGGGAAGAA
TCTCTTGCTTCAATGCTAAAAATACTTGGTAGATCAGCATGCTGGCTCTCCTCCTGTGAAGAATATTCTG
GCTGAAGCTGTTCAAAACATTGTTTCTAGATCCTGCATTAAGAAATTCAAAAATCAGTTAATCATCGTTACA
TGTTGTAAAGTTGGATACTGACAGTCTCTAATAGTTTATCATCCAATTGCAAGTAACCTACAATTTTAG
GCATAAAAGTTGATGTGTATAACATGAATACAAAGATAAGGATGGTCACAGTGAATTTCTCAAACTACAG
CTCACACCAAGTATTTTTCTTTTTCTATTAATATTTAATAAGGACAATATGGCTATAAACTGAGGATGT
TTTCTCTATAAGAACTGAATATGACTTTAATAACAGAAAAGAGAATAAAGCATCCATGTGTATCTCAAT
TAAAAAAAAAAAAAAAAA
```

5' Read Nucleotide Sequence:

>OriGene 5' read for AL833615 unedited
 CAAATTTTGTATACGACTCATATAGCGGCCGCGAAATTCGCACGAGGATTAAAGTAAGT
 TCTGGTCTTCCATTATACCATGGCCAGTTTCTGTTTCCTGTGAACCACAATTAAGGA
 AAACCATGTCAAATAGCCTTAAAGACTTAACTAATCGTTTTGTATATAATGCACATT
 TTTTGCAAGTGTATATAAATGTGAAATGGAGGAAGAAAAGCAATGATTGGCAAAGACCA
 ACAGATCAGATTTCCCTTAGGCTTCCATAACTCCAGCATTAGTTGTAGAAATACTGGAGCC
 TACTTTGGGAGGGGATGAAATAGTGTGACAATGGACTGAAAGGTATCTACCACAATGAT
 TACAAACCTAAATGCTTGTAGTGTGGCAAAAAATATAAATGCAGGTTGGCTGTGCCGA
 ATTGTATCCTTTAAAGGGAGCAGGGTCTGACTGGGCTGTACCAATGTGGGCCACTGAC
 TGCTAACAGATAATGTTTCAAAAGTATCTAAACACAACAAGAACAAAAGCAGCCACATAA
 AATGTGGTTTGTAGTTGTAATTTCTATTTTCAATCTGTTATGTTTATTTGTGAAGGATAAA
 CTGCACATACTGCTAGATGAAAACCAAGTCACCAGTTGACTGGTGTGAAAGCAAGCAGAT
 TATAAGTTGCTTAATATGAGGAGCAGGTTTCCAATACTTATTCCAATAATGGATGAATTC
 ATTGCACTGGAATGAGGCTCAACACTGAAAGTCTGAAGCACAGGCAGAACCACTTTT
 TCAGGGAAGTTGNAGAAAAGGATATCTGATTGGGAGAAAAGGATCTTTTGTAATACTC
 TCAAAGACAGTTNTCAAATTTTAAAGTTCTGCATTATGCTGAATTNCTAGTGATCACAAAGC
 TGGTAGCATATTACAAGCANTNTGCTGATTTGNNTCAGTTTTTCTGCAGCATTGTGTGG
 TCAACTCTTCGAGTGAGCAGAGATC

3' Read Nucleotide Sequence:

>OriGene 3' read for AL833615 unedited
 GTCCAATATGNACCGCGGCACGCAATCTATGATCGAGTTTTTTTTTTTTTTTTTATTG
 AGAACACATGGATGCTTTATTCTCTTTTCTGTTATTAAGTCATATTCAGTTCTTATAGA
 GGAAAACATCCTCAGTTTATAGCCATATTGTCCTTATTAATATTAATAGAAAAAGAAAA
 AATACTTGGTGTGAGCTGTAGTTTGAGAAATCACTGTGACCATCCTTATCTTTGTATTCA
 TGTTTATACACATCAACTTTTATGCCTAAAATTGTAGGTTACTTGCAATTGGATGATAAA
 CTATTAAGAGCTGCAGTATCCAATTTTACAACATGTAAACGATGATTAAGTATTTTGT
 AATTTCTTAATGCAGGATCTGAACAATGTTTGAACAGCTTCAGCCAGAATATCTTTCAC
 AGGAGGAGAGCCAGCATGCTGATCTACCAAGTATTTTATGATTGAAGCAAGAGATTCTT
 CCCAAGGCATGAAAAATCAGAACTATCCCTCTGAAGAACATACTGAAATATTACAAAACA
 AGAAAAAATTGTTCAATTTCCAGCTTTCTATAGGAACTTAAGTTCAGTCTACAGTTTCT
 CTGATGAAGCTAATGTATTTGATCAGTTAAATGTACAGCATAGCACTCCATGTGGTTCTA
 ACTCTAGTGAGTCTCAACAAAACCAACTAGAAAGCAGAAAGGAAAGTCTGGGCTTTG
 AAGAACTATCAAAAAGAGGGGTTGTTACAATGTTACAAAGTCAAGGACTCATTGGAGATA
 ATAAAAATGAAACCTGTAGGGTTTTAGACATAAATCCACAGGTAGAGGAACTGACTCT
 CGATTATGTGTAAGAACAGTGGAGATGGGGACTTCCATTACAGGCCCTNATTCCTTAAC
 ACTCAAA

Restriction Sites:

NotI-NotI

ACCN:

AL833615

Insert Size:

2250 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:	<u>AL833615.1</u>
RefSeq Size:	3169 bp
RefSeq ORF:	3169 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]