OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC317214

KIAA1731 (CEP295) (NM_033395) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: KIAA1731 (CEP295) (NM_033395) Human Untagged Clone

Tag: Tag Free

Symbol: KIAA1731

Synonyms: KIAA1731

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_033395, the custom clone sequence may differ by one or more nucleotides

ATGAAGAGAAAAGTCGTGAATACTCACAAGCTGAGATTGAGTCCTAATGAGGAAGCCTTC
ATTTTGAAGGAAGATTATGAAAGAAGGCGAAAACTAAGATTGCTACAGGTTCGAGAACAA
GAAAGAGATATCGCCTTACAGATAAGAGAAGACATAAAACAGAGGAGAAATCAACAATTT
ACACGTTTGGCAGAGGAGCTAAGGGCAGAATGGGAAGAATCACAAACTCAGAAAATACAG
AACTTGGAAAAACTGTATTTGGCAAGTTTAAGAAGTATGGGAGAGGGACATCGACAGGCC
AAAGAAAATGAACCTGATTTGGATGCTTTGGCACAGCGGGCAGCAGAAAGGAAAAGAAAA
GCAGATTTGAGGCATAAAGAAGCCTTGAAAGTACAGAAAAATCAAAAAGAAATATTACTG
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AATCTGATTCTGCACCTTGAACCAGAGCCCTTGCCCACTGTGACTAATCAGATCCAAGAT
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ACAGAAGCTGAAATATGTTCTAGTGAAACAGATGTTCCCTTGGTAATGAAGACCCAACAG
ATTCCTTCAAAAGTTCTTTTTAAAAAATTATTAAATAAGATCCGAAGCCAAAAATCTCTC
TGGACAATTAAATCTATGTCTGAGGATGAAAGTGAAATGATTACGACTGTTAGTGAAATT
GAGAGTAAAGCACCAACGGTTGAGTCAGGAACAATTGCCAGCAAAGAGAGAACGTTATCC
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TTCAGGGCTCAGCTGGAAGAAGAAAAAAGAAAAAAAACTCAACCGACTGGGGTTGGCATT
GCTCCAGCATCATGCCCTGTAATTTCTGATGAAGATAGTCATAGGCAGATGATTCGTAAC

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TATCAACATCAGCTTTTACAACAAAACAGGTTACACAGGCAGTCTGTTGAAACAGCCAGG
AAACAATTACTTGAATATCAAACTATGTTAAAAGGAAGGTGCCCATCGGTGTCAGCTCCA
TCATTGATAACTGATTCTGTTATATCAGTGCCATCATGGAAATCTGAGAGACCGACTGCT
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TCTATAAGTTCATCTGTGAGTCGTCTAAAGGGCGTGAATAAAGTCAGAGCATCTTTTCCT
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CTAGCTGAAGTGAAACAACAAAAGGAAGAAAAAACAAAACAAGAAGCTTATGCCCAAAAC
AGAGCAAGGGCAAAAGAATTCCATAAGAAAACACTAGAGAAACTTCGAGCCAAAAATACA
TGC

Restriction Sites: Please inquire

ACCN:	NM_033395
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).
OTI Annotation:	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.
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:	NM_033395.1, NP_203753.1
RefSeq Size:	8044 bp
RefSeq ORF:	7806 bp
Locus ID:	85459
UniProt ID:	Q9C0D2
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]