

## Product datasheet for **RC235310**

### **KIAA0586 (NM\_001244191) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KIAA0586 (NM\_001244191) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** KIAA0586  
**Synonyms:** JBTS23; SRTD14; Talpid3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC235310 representing NM\_001244191  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTGTCCAGAAAGTGATTTTTCTAAAGACGTTGCAGTGAAGTGTTCCTTTGGATAAAAATAGAAGAGA  
ACAACAAGCAAAAAGCAAATGACATCTTCAATTTCTCAGTATACAATGGGACAGAAAGATGCTCTAAGAAC  
AGTTTTAAAGCAAAAAGCTCAAAGCATGCCTGTTTTAAAGGAAGTAAAGGTACATCTGTTAGAAGATGCA  
GGCATAGAGAAGGATGCTGTTACTCAGGAGACTAGAATTTCAACCCAGTGAATTGATTCAGCTACAACCG  
TGCTGCAGCAACTGCTGCTGCCATTGCAACCCGAGCTCCGTTGATAAAGGTGCAGAGTGATTTGGAAGC  
AAAAGTCAATTCTGTTACAGAATTACTTAGTAAATACAGGAGACTGATAAACACCTGCAACGTGTTACA  
GAGCAGCAAAACAAGCATTAGAGGAAACAAGAGAAATTACATTGTCATGATCACGAAAAGCAAATGAATG  
TGTTTATGGAGCAGCACATAAGGCATCTGAAAAGTTACAACAACAACAATAGATATTCAGACTCATT  
TATTAGTGCTGCACTCAAGACTAGTAGTTTTAGCCTGTTAGTATGCCCTCCTCCAGAGCAGTGGAAAAG  
TATCCGTA AAAACAGAACACCCTAATCTTGGTAGCTGAATCCATCTTTATATAACACATTTGCTTCCA  
ACAAGCACCTTTAAAAGAAGTTGAAGTACGAGTTTTGATAAACAGAAATCTCCTTTGGAGACCCAGC  
ACCTCGCAGATTTGCTCCTGTACCTGTTTCAAGGATGATGAACTATCAAAGAGGAAAAATCTTTTGAA  
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TCCTGAGAAAACAACAGATTTCTTCTGTGAAGAGCTAGAAAACAATAAAGTACTATGCAGAAGTCT  
GATGATGTTCTTCATGACCTTGCCAAAAGAGAAAACAATAAGCATGGTCCAGCCAAAAGAATCTC  
TGAGTATGTTGAAGCTTCCAGATCTCCACAGAATTCTGTTAAGCTTCAAACAACCAATACAACAAGATC  
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GGATGAACTGTCAAGAACAGATTATGAACAAAAAGATTTGATCAGAAGATCAGAGAACCAAGAAAGGT  
CAGAATATGACTAAAGATATTAGAACCAACACACAAGATAAACTGTCAACAAATCTGTAATTCAGAA



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AACATTCTCAAAAAGCAAATAGAAGAGCATTTTGTAGAAATCTACCTATGAGGGGCATGCCTGCTTCAAGTTT  
ACAGAAAGAGAGAAAAGGAAGGGCTTTTGAAGCAACCACAGTAATACAAGATGAAGATTATATGTTACAA  
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TGTCATCAAAAATTTTATGCAGATGCAATTTCTTTTGTAAACAAAACCAGGAGTCAAGCAGTTTC  
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CAGCTAACAGCGGCAGCAGAGAACATCTTAATGGGACATTCTCTATATGCAGCCACCTGTCACATAATA  
CACAGTCTTTGGATCAACAATGTGATCCTAAACCATTATCTCGGCAATTTGACACAGTTTCAGGTAGTAT  
TTATGAAGATTATGTGCTAGTCATGGTCCAATGAGTTTGGGAGAATTGGAGTTGGAGCCAAATTTAAG  
CTGTTCTTCCACAACACTTCTGACAGCACAAGAAAATGATGTTAATTTACCAGTAGCCGCTGAAGATT  
TTTCCAGTACCAACTAAAGCAAATCAGGATGTTAAGCAAGTTGAACACAAACCATCACAAAGTTACCT  
ACGTTGAGCTTAATCCGTACCTCACATGTGATTTTTCAGTGGGAAAGCAGTCCCACTCTCCGCTTCCAC  
CAAAATGAGCTTAATCCGTACCTCACATGTGATTTTTCAGTGGGAAAGCAGTCCCACTCTCCGCTTCCAC  
AGATGCCCTGCAAGATGTCAGTGTGCTGCGCTCAGTGAACCTCGAGGACTGCTCTCAGTCTCTGAG  
TCTCAGCACAATGCAGGAGGACATGGAGTCTTCGGGGCAGATACCTTC

ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235310 representing NM\_001244191  
 Red=Cloning site Green=Tags(s)

MVSESDFSKDVAVQVLPDKIEENKQKANDIFISQYTMGQKDALRTVLKQKAQSMPVFKEVKVHLLLEDA  
 GIEKDAVTQETRISSPGIDSATTVAATAAAIATAAPLIKVQSDLEAKVNSVTELLSKLQETDKHLQRVT  
 EQQTSIQRKQEKLHCHDHEKQMNVMFEQHIRHLEKLQQQIDIQTHFISAALKTSSFQPVSMPPSSRAVEK  
 YSVKPEHPNLGSCNPSLYNTFASKQAPLKEVEDTSFDKQKSPLETPAPRRFAPVPSRDDEL SKRENLE  
 EKENMEVSCRGNVRLLEQILNNNSL TRKSESSNTTSL TRSKI GWTPEKTNRFPSCEELETTKVTMQKS  
 DDVLHDLGQKEKETNSMVQPKESLSMLKLPDLQNSVKLQTTNTTRSVLKDAEKILRGVQNNKKVLEENL  
 EAIIRAKDGAAMYSLINALSTNREMSEKIRIRKTVDEWIKTISAEIQDEL SRTDYEQKRFQKNQRTKKG  
 QNMTKDIRTNTQDKTVNKSVIPRKHSQKQIEEHFRNLPMRGMPASSLQKERKEGLLKATTVIQDEYMLQ  
 VYGKPVYQGHRSTLKKGPYLRFNPSPKSRPQRPKVIERVKGTKVKSIRTQDFYATKPKKMSKMKHSV  
 PVLPHGDQYYLFSPSREMPFSGTLEGLIPMAILLGQTQNSDTPMPAGVIVSKPHPVTVTTSIPPSSR  
 KVETGVKPNIAIVEMKSEKDPPLQTVQVLPVSDIDSISNSSADVLSPLSSPKEASLPVQWIKTPEI  
 MKVDEEEVKFPGTNFDEIIDVIEEEKCEIPDSEPILEFNRSVKADSTKYNGPPFPVASTFQPTADIL  
 DKVIERKETLENSLIQWVEQEIMSRIISGLFPVQQIAPSISVSVSETSEPLTSDIVEGTSAGALQLFVD  
 AGVPVNSNVIKHFVNEALAEIAVMLGDREAKKQGPVATGVSGDASTNETYLPARVCTPLPTPPTPPCS  
 PSSPAKECVLVKTPDSSPCSDSDHMAFPVKEICAEKGDDMPAIMLVNTPTVPTTTPPPAAAVFTPTLSD  
 ISIDKLKVSPELKPWGDGDLPLEEENPNSPQEELHPRAIVMSVAKDEEPESMDFPAQPPPEPVFMP  
 FPAGTKAPSPSQMPGSDSSTLESTL SVTVTETETL DKPISEGEILFCGQKLAPKILEDIGLYLTNLNDS  
 LSSTLHDAVEMEDDPPSEGQVIRMSHKFHADAILSF AKQNE SAVSQQAVYHSEDL ENSV GELSEGQRP  
 QL TAAENILMGHSL YMQPPVTNTQSLDQCDPKPLSRQFDTVSGSIYEDSCASHGPM SLGELEPN SK  
 LVLPTLLTAQENDVNL PVA AEDFSQYQLKQNDVKQVEHKPSQS YL RVRNKSDIAPSQQVSPGDMDR T  
 QIELNPYLTCVFSGGKAVPLSASQMPPAKMSVMLPSVNLEDSCSLSLSTMQEDMESSGADTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

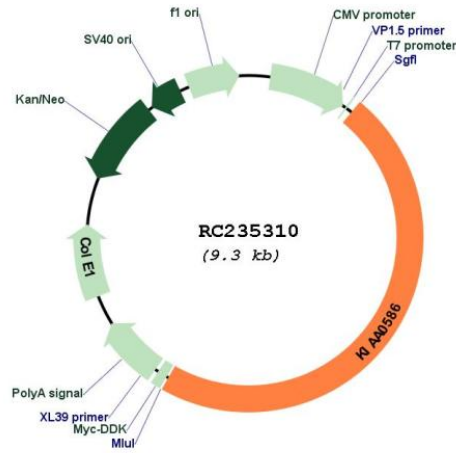
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001244191

**ORF Size:** 4389 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.

**RefSeq:** [NM\\_001244191.1](#), [NP\\_001231120.1](#)

**RefSeq Size:** 5609 bp

**RefSeq ORF:** 4392 bp

**Locus ID:** 9786

**UniProt ID:** [Q9BVV6](#)

**Cytogenetics:** 14q23.1

**MW:** 162.2 kDa

**Gene Summary:** This gene encodes a conserved centrosomal protein that functions in ciliogenesis and responds to hedgehog signaling. Mutations in this gene causes Joubert syndrome 23. Alternative splicing results in multiple transcript variants and protein isoforms. [provided by RefSeq, Aug 2016]