

Product datasheet for **RC235318**

KIAA0586 (NM_001244190) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KIAA0586 (NM_001244190) 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: >RC235318 representing NM_001244190
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAGTGAAGAGACTTCGTGAGGTAGTTTCTCAAAATCATGGAGATCATTGGTTTTGCTGAAAGATG
AGTTGCCCTGTTCCTCCGGCATTGTCTGCAAATAAACGTCTTCCTGTTGGAACGGGGACTAGTTTGAA
TGGAAATCAGCGTGGTTCATCAGACTTAACTTCTGCTAGAAATTGTTACCAGCCTCTATTAGAAAATCCC
ATGGTGTGAGAAAGTGATTTTTCTAAAGACGTTGCAAGTCAAGTGTGCCTTTGGATAAAAATAGAAGAGA
ACAACAAGCAAAAAGCAAATGACATCTTCATTTCTCAGTATACAATGGGACAGAAAGATGCTCTAAGAAC
AGTTTTAAAGCAAAAAGCTCAAAGCATGCCTGTTTTAAAGGAAGTAAAGGTACATCTGTTAGAAGATGCA
GGCATAGAGAAGGATGCTGTTACTCAGGAGACTAGAATTCACCCAGTGGAAATTGATTAGCTACAACCG
TGGCTGCAGCAACTGCTGCTGCCATTGCAACCGCAGCTCCGTTGATAAAGGTGCAGAGTGATTTGGAAGC
AAAAGTCAATTCTGTTACAGAATTAAGTAAATTACAGGAGACTGATAAACACCTGCAACGTGTTACA
GAGCAGCAAAACAAGCATTACAGAGAAACAAGAGAAATTACATTGTCATGATCACGAAAAGCAAATGAATG
TGTTTATGGAGCAGCACATAAGGCATCTTGAAAAGTTACAACAACAATAAGATATTAGACTCATT
TATTAGTGTGCACTCAAGACTAGTAGTTTTAGCCTGTTAGTATGCCCTCCTCCAGAGCAGTGGAAAAAG
TATCCGTAACCAAGAACACCCTAATCTTGGTAGCTGTAATCCATCTTTATATAACACATTTGCTTCCA
AACAGCACCTTTAAAAGAAGTTGAAGATACGAGTTTTGATAAACAGAAATCTCCTTTGGAGACACCAGC
ACCTCGCAGATTTGCTCCTGTACCTGTTTCAAGGGATGATGAACTATCAAAGAGGGAAAAATCTTTGGAA
GAAAAAGAAAATATGGAAGTGTGCTGTACAGAGGAAATGTAAGACTATTGGAACAAATTTGAATAATA
ATGATTCTTTGACAAGAAAAGTGAATCATCAAACACCACCTCACTAACTAGGTCAAAAATAGGATGGAC
TCCTGAGAAAACAACAGATTTCTTCTGTAAGAGCTAGAAAACAATAAAGTACTATGCAGAAGTCT
GATGATGTTCTTCATGACCTTGCCAAAAAGAGAAAGAAACAATAAGCATGGTCCAGCCAAAAGAATCTC
TGAGTATGTTGAAGCTTCCAGATCTCCACAGAAATCTGTTAAGCTTCAAACAACCAATACAACAAGATC
TGATTGAAAGATGCTGAGAAGATTTGAGAGGAGTACAAAACAATAAAAAGTACTTGAAGAAAACCTG
GAAGCTATTATTCGTGCAAAAAGATGGAGCTGCCATGTATTGCTTATCAATGCTTTATCTACCAACAGAG



[View online »](#)

AGATGTCAGAGAAAATTAGGATCAGAAAGACAGTGGATGAATGGATTAATACTATTTCTGCAGAAATTCAGATGAAGTGTCAAGAACAGATTATGAACAAAAAGATTTGATCAGAAGAATCAGAGAACCAAGAAAGGT CAGAATATGACTAAAGATATTAGAACCAACACACAAGATAAACTGTCAACAAATCTGTAATTCAGAA AACATTCTCAAAAGCAATAGAAGAGCATTGTAGAAATCTACCTATGAGGGGCATGCCTGCTTCAAGTT ACAGAAAGAGAGAAAGGAAGGGCTTTTGAAGCAACCACAGTAATACAAGATGAAGATTATGTTACAA GTCTATGGAAAGCCAGTTTATCAGGGCCATCGAAGCACTCTTAAAAAGGACCATATCTCAGATTTAATT CTCCATCTCCTAAGTCCAGACCACAGACCAAAAAGTAATAGAACGAGTTAAAGGCACTAAGGTAAGTC AATAAGAACACAGACTGACTTCTATGCAACAAAACCTAAGAAGATGGATTCTAAAATGAAACATTCTGTT CCTGTGTTACCTCATGGCGATCAGCAATATTTGTTAGCCCAAGTAGAGAAATGCCTACTTTTTAGGTA CATTGGAAGGTCACTGATTCTATGGCAATCTTTTAGGACAAAACCAAGTAATAGTGATACCATGCC ACCTGCTGGAGTGATTGTCAGCAAGCCACACCCTGTAAGTGTGACTACTTCTATTCTCCATCATCTCGA AAAGTAGAAACTGGAGTAAAGAAACCTAACATAGCCATTGTAGAAATGAAGTCAGAAAAAAGGATCCTC CTCAGCTTACTGTGCAGGTATTACCCAGTGTAGATATTGACAGCATTTCAAATAGTAGTGCTGATGCTCT TCACCTGTCTAGCCCAAGAAGCATCTCTTCTCCTGTGCAAACTGGATAAAGACTCCAGAAAT ATGAAGGTAGATGAAGAAGAGGTGAAGTTCCAGGAACTAACTTTGATGAAATAATCGATGTCATACAGG AAGAAGAAAAATGTGATGAAATTCAGACTCTGAACCAATTCTGGAGTTTAAAGAGGTTAAAGCTGA TTCTACAAAAATAATGGTCTCCATTTCCGCCAGTTGCTTCTACTTTTTAGCCCACTGCTGATATTCTG GATAAAGTAATTGAGAGAAAAGAAACACTGGAAAAAGCTTAATCAATGGGTAGAGCAAGAAATAATGT CAAGAATTATCTCTGGGCTCTTTCCAGTCCAGCAACAGATTGCACCTAGTATCAGTGTTCAGTCAGTGA GACAAGTGAACCACTGACTTCTGACATTGTGGAAGGAACAAGCAGTGGCGCCCTCCAGCTTTTTGTTGAT GCTGGTGTCTGTGAACTCAATGTGATTAACATTTTGTAAACGAAGCTTTGCTGAGACCATTGCTG TCATGTGGGTGACAGAGAAGCAAGAAGCAAGGTCTGTTGCTACAGGTGTTCTGGGGATGCTCAAC AAATGAAACATATTTGCCGGCAAGAGTGTGACCCCACTGCCTACCCACAGCCTACGCTCTCTGTGCTA CCTTCATCACCTGCTAAGGAGTGTGTTTTGGTAAAGACTCCAGATTCTTCTCCCTGTGATTCTGGATCATG ATATGGCTTTTTCTGTGAAAGAAATATGTGCTGAAAAAGGAGATGATATGCCTGCCATCATGCTTGTAA TACTCCAACAGTTACCCCTACTACTACACCTCCTCCAGCGGCGGCAGTTTTTACCCCACTTTGTGAGAT ATTTCCATTGATAAATTGAAGGTATCAAGCCCAGAGCTTCCCAAGCCATGGGGTATGGAGACCTGCCAC TGGAAAGAGAAACCCTAACTCACCTCAAGAAGAACTTCATCCAAGAGCTATTGTAATGTCTGTGGCTAA GGATGAAGAACCAGAGATATGGATTTCCCTGCTCAGCCTCCACCTCCAGAGCCAGTTCCCTTTATGCCA TTTCTGCGGCCCAAGGCCCTTCCCTCACAGATGCCAGGTCTGATTATCAACTGGAGAGCA CATTGAGTGTACTGTCAGTAACTGAACTTTAGATAAACCCATCTCTGAAGGAGAGATTTTATTAG CTGTGGTCAAAAATTGGCCCCAAGATTTTAGAAGATATAGGACTGTACCTGACAAACCTTAATGATAGC TTATCCAGCACTCTGCATGATGCCGTTGAAATGGAGGATGATCCTCCTAGTGAAGGGCAAGTGATTAGGA TGTCCATAAAAAATTTATGCAGATGCAATCTTTCTTTTGTAAACAAAACAGGAGTGCAGTTC CCAGCAAGCAGTCTATCATTAGAGGACTTGGAAAACAGTGTGGGTGAACCTAGTGAAGGACAAAGACCC CAGCTAACAGCGGCAGCAGAGAACATCTAATGGGACATTTCTCTATATGCAGCCACCTGTCACATAA CACAGTCTTTGGATCAACAATGTGATCCTAAACCATTATCTCGGCAATTTGACACAGTTCAGGTAGTAT TTATGAAGATTCATGTGCTAGTCATGGTCCAATGAGTTTGGGAGAATTGGAGTTGGAGCCAAATTTAAG CTGGTCTTCCCACAACACTTCTGACAGCACAAGAAAATGATGTTAATTTACCAGTAGCCGCTGAAGATT TTTCCAGTACCAACTAAAGCAAAATCAGGATGTTAAGCAAGTTGAACACAAACCATCACAAAGTTACCT ACGTGTAGAAAATAAATCTGATATTGCACCTTCACAGCAACAAGTTTACCAGGTGATATGGATCGGACA CAAATTGAGCTTAATCCGTACCTCACATGTGATTTTTCAGGTGGGAAAGCAGTGCCACTCTCCGCTTAC AGATGCCCCCTGCCAAGATGTCAGTGTGCTGCCGTGAGTGAACCTCGAGGACTGCTCTCAGTCTCTGAG TCTCAGCACAATGCAGGAGGACATGGAGTCTTCCGGGGCAGATACCTTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235318 representing NM_001244190
 Red=Cloning site Green=Tags(s)

```

MPVKRLREVVSQNHGDHLVLLKDELPCVPPALSANKRLPVGTTSLNGTSRGSDDLTSARNCYQPLEENP
MVSEDFSKDVAVQVLPDKIEENNKQKANDIFISQYTMGQKDALRTVLKQKAQSMVPVFKEVKVHLEDA
GIEKDAVTQETRI SPSGIDSATTVAATAAAIATAAPLIKVQSDLEAKVNSVTELLSKLQETDKHLQRVT
EQQTSIQRKQEKLHCHDHEKQMNVMFEQHIRHLEKLQQQQIDIQTHFISAALKTSSFQPVSMPPSSRAVEK
YSVKPEHPNLGSCNPSLYNTFASKQAPLKEVEDTSFDKQKSPLETPAPRRFAPVPVSRDDEL SKRENLE
EKENMEVVSCHRGVRLLEQILNNNSL TRKSESSNTTSLTRSKIGWTPEKTNFRPSCEELETTKVTMQKS
DDVLHDLGQKEKETNSMVQPKESLSMLKLPDLQNSVKLQTTNTRSVLKDAEKILRGVQNNKKVLEENL
EAIIRAKDGAAMYSLINALSTNREMSEKIRIRKTVDEWIKTISAEIQDEL SRTDYEQKRFQKNQRKKG
QNMTKDIRTNTQDKTVNKSVIPRKHSSQKQIEEHFRNLPMRGMPASSLQKERKEGLLKATTVIQDEYMLQ
VYGKPVYQGHRSTLKKGPYLRFNSSPKSRPQRPKVIERVKGTVKVKSIRTQDFYATKPKKMSKMKHSV
PVLPHGDQQYLFSPSREMPFSGTLEGLIPMAILLGQTQNSDTPMPAGVIVSKPHPVTTT SIPPSSR
KVETGVKKNPIAIVEMKSEKDPPLQTVQVLPVDIDSISNSSADVL SPLSSPKEASLPPVQTIKTPPEI
MKVDEEEVKFPGTNFDEIIDVIQEEKCEIPDSEPIEFNRSVKADSTKYNGPPFPVASTFQPTADIL
DKVIERKETLENSLIQWVEQEIMSRIISGLFPVQQIAPSISVSVSETSEPLTSDIVEGTSAGALQLFVD
AGVPVNSNVIKHFVNEALAEIAYMLGDREAKQGPVATGVSGDASTNETYLPARVCTPLPTPTPPCS
PSSPAKECVLVKTPDSSPCSDSDHMAFPVKEICAEKGDMPAIMLVNTPTVTPTTTPPPAAAVFTPTLSD
ISIDKLVSSPELKPWGDGDLPLEEENPNSPQEELHPRAIVMSVAKDEEPE SMDFPAQPPPEPVFMP
FPAGTKAPSPSQMPGSDSSTLESTLSVTVTETETLDPKISEGILFSCGQKLAPKILEDIGLYLTNLS
LSSTLHDAVEMEDDPPSEGQVIRMSHKKFHADAIL SFAKQNE SAVSQQAVYHSEDL ENSV GELSEGQRP
QLTAAANILMGHSLYMQPPVTNTQSLDQCCDPKPLSRQFDTVSGSIIYEDSCASHGPM SLGEL ELEPNSK
LVLPTLLTAQENDVNL PVA AEDFSQYQLKQNDYKQVEHKPSQSYLRVRNKSDIAPSQQVSPGMDRT
QIELNPYLTCVFSGGKAVPLSASQMPPAKMSVMLPSVNLED CSQSLSLSTMQEDMESSGADTF
  
```

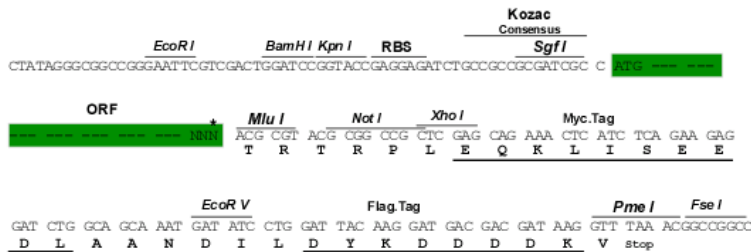
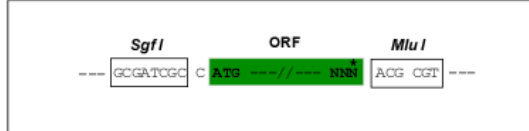
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

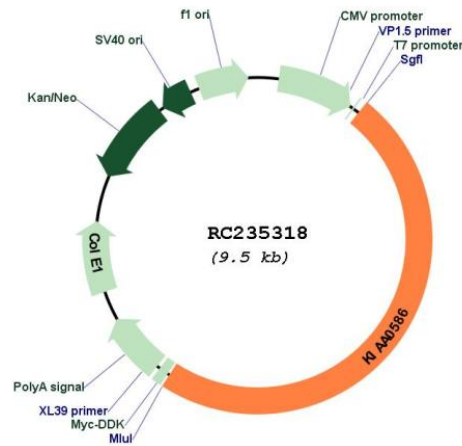
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


- ACCN:** NM_001244190
- ORF Size:** 4599 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_001244190.2](#)

RefSeq Size: 5801 bp

RefSeq ORF: 4602 bp

Locus ID: 9786

UniProt ID: [Q9BVV6](#)

Cytogenetics: 14q23.1

MW: 169.8 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]