

Product datasheet for **RG220179**

KIAA0586 (NM_014749) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KIAA0586 (NM_014749) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KIAA0586
Synonyms: JBTS23; SRTD14; Talpid3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220179 representing NM_014749
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGTGAGAAAGTGATTTTTCTAAAGACGTTGCAGTGCAGTGTTCCTTTGGATAAAATAGAAGAGA
 ACAACAAGCAAAAAGCAAATGACATCTTCATTTCTCAGTATAACAATGGGACAGAAAGATGCTCTAAGAAC
 AGTTTTAAAGCAAAATGTCTCAGTTGTCTCACAGGCTGGAGTGATCACAGTGGGTGATCACAACTCAC
 TGCAGTCTCTACCTCCTCAGGCTCATGAGATCCTCCACCTCAGCCTCCCGAGTAGCTGGGACTACAGAG
 CTCAAAGCATGCCTGTTTTAAGGAAGTAAAGGTACATCTGTTAGAAGATGCAGGCATAGAGAAGGATGC
 TGTACTCAGGAGACTAGAATTTACCCAGTGGAATTGATTCAGCTACAACCGTGGCTGCAGCAACTGCT
 GCTGCCATTGCAACCGCAGCTCCGTTGATAAAGGTGCAGAGTGATTTGGAAGCAAAAAGTCAATTTCTGTTA
 CAGAATTACTTAGTAAATTACAGGAGACTGATAAACACCTGCAACGTGTTACAGAGCAGCAAAACAAGCAT
 TCAGAGGAAACAAGAGAAATTACATTGTCATGATCACGAAAAGCAAATGAATGTGTTTTATGGAGCAGCAC
 ATAAGGCATCTTGAAAAGTTACAACAACAACAATAGATATTCAGACTCATTTTATTAGTGTCTCACTCA
 AGACTAGTAGTTTTAGCCTGTTAGTATGCCCTCCTCCAGAGCAGTGGAAAAGTATTCGGTAAAACCAGA
 ACACCCATAATCTTGGTAGCTGTAATCCATCTTTATATAACACATTTGCTTCCAAACAAGCACCTTTAAAA
 GAAGTTGAAGATACGAGTTTTGATAAACAGAAATCTCCTTTGGAGACACCAGCACCTCGAGATTTGCTC
 CTGTACCTGTTTCAAGGGATGATGAACTATCAAAGAGGGAAAATCTTTTGGAAAGAAAAGAAAATATGGA
 AGTGTCTGTGCACAGAGGAAATGTAAGACTATTGGAACAATTTTGAATAATAATGATTCTTTGACAAGA
 AAAAGTGAATCATCAAACACCACCTCACTAACTAGGTCAAAAATAGGATGGACTCCTGAGAAAACAAACA
 GATTTCTTCTGTGAAGAGCTAGAAAACAACTAAAGTACTATGCAGAAGTCTGATGATGTTCTTCATGA
 CCTTGGCCAAAAGAGAAAAGAAACAATAGCATGGTCCAGCCAAAAGAATCTCTGAGTATGTTGAAGCTT
 CCAGATCTCCACAGAATTCTGTTAAGCTTCAAACAACCAATACAACAAGATCTGTATTGAAGATGCTG
 AGAAGATTTTGAAGAGTACAAAACAATAAAAAAGTACTTGAAGAAAACCTGGAAGCTATTATTCGTGC
 AAAAGATGGAGCTGCCATGTATTCGCTTATCAATGCTTTATCTACCAACAGAGAGATGTCAGAGAAAATT



[View online »](#)

AGGATCAGAAAGACAGTGGATGAATGGATTAATACTATTTCTGCAGAAATTCAGGATGAACTGTCAAGAA
 CAGATTATGAACAAAAAGATTTGATCAGAAGAATCAGAGAACCAAGAAAGGTCAGAATATGACTAAAGA
 TATTAGAACCAACACACAAGATAAACTGTCAACAAATCTGTAATTCAGAAACATTCTCAAAAGCAA
 ATAGAAGAGCATTTTAGAAATCTACCTATGAGGGGCATGCCTGCTCAAGTTTACAGAAAGAGAGAAAGG
 AAGGGCTTTTGAAGCAACCACAGTAATACAAGATGAAGATTATGTTACAAGTCTATGAAAGCCAGT
 TTATCAGGGCCATCGAAGCACTTTAAAAAGGACCATATCTCAGATTTAATTCTCCATCTCCTAAGTCC
 AGACCACAGAGACCAAAAGTAATAGAACGAGTTAAAGGCACTAAGGTAAGTCAATAAGAACACAGACTG
 ACTTCTATGCAACAAAACCTAAGAAGATGGATTCTAAAATGAAACATTCTGTTCCCTGTGTTACCTCATGG
 CGATCAGCAATATTTGTTTCAGCCCAAGTAGAGAAATGCCTACTTTTTTCAGGTACATTGGAAGTCTACTG
 ATTCCTATGGCAATTTCTTTAGGACAAACCCAAAGTAATAGTGATACCATGCCACCTGCTGGAGTGATTG
 TCAGCAAGCCACACCCTGTAAGTGTGACTACTTCTATTCTCCATCATCTCGAAAAGTAGAACTGGAGT
 AAAGAACTAATAGCCATTGTAGAAATGAAGTCAGAAAAAAGGATCCTCCTCAGCTTACTGTGCAG
 GTATTACCCAGTGTAGATATTGACAGCATTTCAAATAGTAGTGCTGATGCCTTTACCTCTGTCTAGCC
 CCAAGAAGCATCTCCTCCTCTGTGCAAACTTGATAAAGACTCCAGAAATTATGAAGGTAGATGAAGA
 AGAGGTGAAGTTCCAGGAACTAAGTTTGTGATAAATCGATGCATACAGGAAGAAGAAAAATGTGAT
 GAAATTCAGACTCTGAACCAATTTCTGGAGTTTAAACAGAAGTGTAAAGCTGATTCTACAAAATATAATG
 GTCCTCCATTTCCGCCAGTTGCTTCTACTTTTTAGCCCACTGCTGATATTCTGGATAAAGTAATTGAGAG
 AAAAGAAACACTGGAAAAAGCTTAATTCATGGGTAGAGCAAGAAATAATGTCAAGAAATATCTCTGGG
 CTCTTTCCAGTCCAGCAACAGATTGCACCTAGTATCAGTGTTTCAGTCAGTGAGACAAGTGAACCACTGA
 CTTCTGACATTGTGGAAGGAACAAGCAGTGGCGCCCTCCAGCTTTTTGTTGATGCTGGTGTCTGTGAA
 CTCAAATGTGATTAACATTTTGTAAACGAAGCTTTGCTGAGACCATTGCTGTCATGCTGGGTGACAGA
 GAAGCAAGAAGCAAGGTCTCTGTGCTACAGGTGTTTCTGGGGATGCTTCAACAAATGAAACATATTTGC
 CGGCAAGAGTGTGCAACCCACTGCCTACCCACAGCCTACGCCTCCTTGTCTCACCTTCTCACCTGCTAA
 GGAGTGTGTTTTGGTAAAGACTCCAGATTCTTCTCCCTGTGATTCCGATCATGATATGGCTTTTCTGTG
 AAAGAAATATGTGCTGAAAAAGGAGATGATATGCCTGCCATCATGCTTGTAAACTCCAACAGTTACCC
 CTACTACTACACCTCCTCCAGCGCGGCAGTTTTTACCCCACTTTGTCAGATATTTCCATTGATAAATT
 GAAGGTATCAAGCCAGAGCTTCCCAAGCCATGGGGTGTGGAGACCTGCCACTGGAAGAAGAGAACCCT
 AACTCACCTCAAGAAGAACTTCAACAAGAGCTATTGTAATGTCTGTGGCTAAGGATGAAGAACCAGAGA
 GTATGGATTTCCCTGCTCAGCCTCCACCTCCAGAGCCAGTTCCCTTTATGCCATTTCTGCCGCGACCAA
 GGCCCTTCCCTCACAGATGCCAGTTCTGATTCATCAACACTGGAGAGCACATTGAGTGTACTGTC
 ACTGAAACTGAACTTTAGATAAACCCATCTCTGAAGGAGAGATTTTATTTAGCTGTGGTCAAAAATTGG
 CCCCCAAGATTTTAGAAGATATAGGACTGTACCTGACAAAACCTTAATGATAGCTTATCCAGCACTCTGCA
 TGATGCCGTTGAAATGGAGGATGATCCTCCTAGTGAAGGGCAAGTGAATAGGATGTCCCATAAAAATTT
 CATGCAGATGCAATTTCTTTTGTAAACAAAACCAGGAGTCAGCAGTTTCCAGCAAGCAGTCTATC
 ATTCAGAGGACTTGAAAAACAGTGTGGGTGAACCTAGTGAAGGACAAAGACCCAGCTAACAGCGGCAGC
 AGAGAACATCTTAATGGGACATTTCTCTATATGCAGCCACCTGTCACTAATACACAGTCTTTGGATCAA
 CAATGTGATCCTAAACATTATCTCGGCAATTTGACACAGTTTCAGGTAGTATTTATGAAGATTCATGTG
 CTAGTCATGGTCCAATGAGTTTGGGAGAATTGGAGTTGGAGCCAAATCTAAGCTGGTCTTCCCAAC
 ACTTCTGACAGCACAAGAAAATGATGTTAATTTACCAGTAGCCGCTGAAGATTTTTCCAGTACCAACTA
 AAGCAAAATCAGGATGTTAAGCAAGTTGAACACAACCATCACAAAGTTACCTACGTGTTAGAAAATAAT
 CTGATATTGCACCTTACAGCAACAAGTTTACCAGGTGATATGGATCGGACACAATTGAGCTTATCC
 GTACCTCACATGTGATTTTTCAGGTGGGAAAGCAGTGCCACTCTCCGCTTACAGATGCCCCCTGCCAAG
 ATGTCAGTGATGCTGCCGTGAGTGAACCTCGAGGACTGCTCTCAGTCTCTGAGTCTCAGCACAATGCAGG
 AGGACATGGAGTCTTCGGGGCAGATACCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG220179 representing NM_014749
 Red=Cloning site Green=Tags(s)

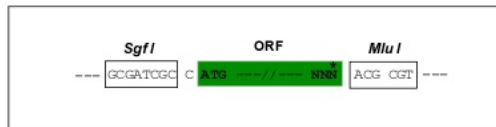
MVSESDFSKDVAVQVPLDKIEENKQKANDIFISQYTMGQKDALRTVLKQNVSLCLTGWSDHSGVITTH
 CSLYLLRLMRSSHLSPSSWDYRAQSMVPFKEVKVHLLLEDAGIEKDAVTQETRISSPGIDSATTVAATA
 AAATAAPLIKVQSDLEAKVNSVTELLSKLQETDKHLQRVTEQQTSIQKQEKLHCHDHEKQMNVMFEQH
 IRHLEKLQQQQIDIQTHFISAALKTSSFQPVSMPSRAVEKYSVKPEHPNLGSCNPSLYNTFASKQAPLK
 EVEDTSFDKQKSPLETPAPRRFAPVPVSRDDEL SKRENLL EKENMEV SCHRGNVRLLEQILNNDLSLTR
 KSESSNTSLTRSKIGWTPKTNRFPSCEELETTKVMTQKSDDLVHDLGQKEKETNSMVQPKESSLMLKL
 PDLQNSVKLQTTNTTRSVLKDAEKILRGVQNNKYLEENLEAIRAKDGAAMYSINALSTNREMSEKI
 RIRKTVDEWIKTISAEIQDELSDTDYEQKRFQKNQRTKKQNMTKDIRTNTQDKTVNKSVIPRKHSQKQ
 IEEHFRNLPMRGMPASSLQKERKEGLLKATTVIQDEYMLQVYQKPVYQGHRSTLKKGPYLRFNSPSPKS
 RPQRPKVIERVKGTKVKSIRTQDFYATKPKKMSKMKHSVPVLPHGDDQYLFSPSREMPFSGTLEGHL
 IPMAILLQGTQNSDTMPPAGVIVSKPHVTVTTSIPSSSRKVVETGVKKPNIAIVEMKSEKKDPPQLTVQ
 VLPVSDIDSISNSADVLSPLSSPKEASPPPVQTIKTPKIMKVDEEEVKFPGTNFDEIIDVIEEEEKCD
 EIPDSEPILEFNRSVKADSTKYNGPPFPVASTFOPTADILDKVIERKETLENSLIQWVEQEIMSRISG
 LFPVQQQIAPSISVSVSETSEPLTSDIVEGTSSGALQLFVDAGVPVNSNVIKHFVNEALAEITAVMLGDR
 EAKKQGPVATGVSGDASTNETYLPARVCTPLPTPQTPPCSPSSPAKECVLKTDPDSSPCSDSHDMAFPV
 KEICAEGDDMPAIMLVNTPTVPTTPPPAAAVFTPTLSDISIDKLVSSPELKPWGDGLPLEENP
 NSPQEELHPRAIVMSVAKDEEPESMDFPAQPPPEVPVFPFPFAGTKAPSPSQMPGSDSSTLESTLSVTV
 TETETLDKPISEGEILFCGQKLPKILEDIGLYLTNLNDSLSTLHDAVEMEDDPPSEGQVIRMSHKKF
 HADAILSFAKQNE SAVSQAVYHSEDL ENSV GELSEGQRPQL TAAAENILMGHSLYMQPPVTNTQSLDQ
 QCDPKPLSRQFDTVSGSIYEDSCASHGPM SLGELELPNSKLVLP TLLTAQENDVNL PVA AEDFSQYQL
 KQNQDVKQVEHKPSQSYLRVRNKSDIAPSQQQVSPGMDRTQIELNPYLTCVFSGGKAVPLSASQMPPAK
 MSVMLPSVNLEDSCQSLSLSTMQEDMESSGADTF

TRTRPLE - GFP Tag - V

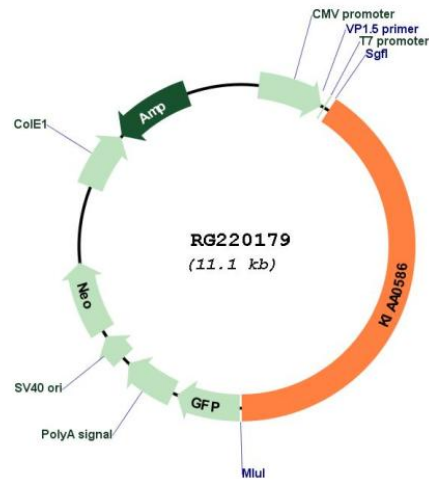
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_014749

ORF Size: 5597 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_014749.2](#), [NP_055564.2](#)

RefSeq Size: 4994 bp

RefSeq ORF: 4419 bp

Locus ID: 9786

UniProt ID: [Q9BVV6](#)

Cytogenetics: 14q23.1

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]