

Product datasheet for **RC221579**

KIAA1751 (CFAP74) (NM_001080484) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA1751 (CFAP74) (NM_001080484) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIAA1751
Synonyms:	C1orf222; KIAA1751
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC221579 representing NM_001080484
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGATGACGGCAGCCTGCTCCCTGAGGACGAGCTTTTGGCCGATGCCCTTCTTTTGAAGATGAAA
 GAGATGAATTAGAGGATCCGGAGTTTGACATCAAATGTCTTCTACAGGAAGCTGAGGATGACGTGGACCC
 GGGACACAGCAGCTCAGTGAAAGAACTAGATACTGATGCTGATAAATTGAAGAAGAAAACAGCTGAGGAC
 AGAACGCAGGCATTTACCTGCGGCAGAACCTGAGCGCCCTGGATAAGATGCATGAGGAGCAAGAGCTTT
 TCACTGAGAAGATGAGAGGGGAGCTGCGCGCTGTGCGCAGAGGCGGGACCTGATCGACAAGCAGCAGGA
 GGCTGTGGCAGCCGAGATCGCCACAGAGGAAGAGGCGGGCAACATGGCCGCTGTGGGCGCCCTCCAGGCC
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 GAGGCCCTGGGGAAGGTGGAGCGGAACCGACTGCTGAGGATCAGGAAGTCCCTGAACACCCAGAAGGAGC
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 GGCCTCCCTGGGAAGAATCCGAGAGCAAGAGAAGAAGGAGGAGATGGAGTGCCACGAGTACATGAGGCGA
 CGCATGGATGCGGTGGTGGCGCTGAAGGCGAGCATCTCCGCGAACCGGGACACACTGCGGAAGTTCCAAG
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 GGGCAGGGATGCATTAGGCACCTTGTCCACCAGCGCCGGCGCCAGGAGCTGGAGGCCAGAAGAGGGCC
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 AAAAGAGGAAGAAACAGCATCCCCCACCAGTGCCAGGCACCGGCTGACCCTGAGGGACAAGACCTGGAA
 CTACATTTCTGACTTTTGAAGAAGACCACAGTCCCAACCAACAGTACACACTGGACTACGAGGCTGCT
 GCAGGCCCGGGCCCTCTCGTTGCTGGAAGTCGTTTCCAGTGAGCTTATCCAGGGGACCCCGGGGCCA
 GCTCAGAGGAGGAAACGTTAGCTGAGCCCGAGATCTCTGGGCTTTGGAATGAAGACTACAAGCCATACCA
 GGTGCCCAAGGAGGACGTGGACCGAAAGCCCGTGGGCGGGACAAAGATGGACAAGGACATCCTGGAGCGC
 ACGGTGGAGCGGCTGCGGAGCAGGCTGGTCCACAAGCAGGTGGTGTGGGGCGTGAGTTCCAAGGACGCC
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 TCCACTGAAATGTTCAACAAAGAAATGTTTCGCTGTCCCTCGACAAGGAGCTCATTGACTTCGGCAGCTAC
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 TCCTCCAGGCGGACATGCAGAGCCGGAAGGAGCTGGAGAAGCTGGACAAGGAGCAGGAGGAGGAGCAGC
 CCGCAGGTGAGCCAGGCTGCCAGGCCAAGCCAGGTGGGCGGGCGGTGAGGGCTCAGGGCAGCATTCCA
 GGGGCTGAGGGGCCAGGGGAGGCTGGAAAGTAGAGAATTTTCC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221579 representing NM_001080484
Red=Cloning site Green=Tags(s)

MEDDGSSLPEDELLADALLLEDERDELEDPEFDIKLLQEADDVDPGHSSSVKELDTADKLLKKKTAED
RTQAFHLRQNL SALDKMHEEQELFTEKMRGELRACRQRRLIDKQQEAVAAEIA TEEEAAGNMAAVGRLQA
VSRRLFAELENERDLQSRTEAVLKESENTMWHIEIQEGRLEAFRTADREEVEATGRRLLQVRAAEQLCREQ
EALGKVERNRLRLIRKSLNTQKELGLRHQKLLLEDARKNHKVAVRFLKASLGRIREQEKKEMECEHYMRR
RMDAVVALKGSTISANRDTLRKFQAWDRAKAEAEQVRVQAEKKAILAQGRDAFRHLVHQRRRQLEAQKRA
FEEEQKLRLKQEIISRILKEEAEEEEKRKKQHPPTSARHRLTLRDKTWNYSIDFCKKTTVPTNTYTLDYEA
AGPGPSRLLEVVSELIQGDPGASSEETLAEPEISGLWNEDYKPYQVPKEDVDVRKPVGGTKMDKDILER
TVERLSRVVHKQVVWGREFQGRPFNSKPELLHFQDFDIGKVYKKKITLVNTTYTINYCKLVGVEEHLRD
FIHVDFDPGGLSAGMSCEVLVTFKPMINKDLEGNISFLAQTEGFSVPLCKSTKKCSLSDLCKLIDFGSY
VVGETTSRITLTVNGVLGTTFKPLPASEPCEMDDSGALKSLSLTYEDKSLYDKAATSFSEQLEGTE
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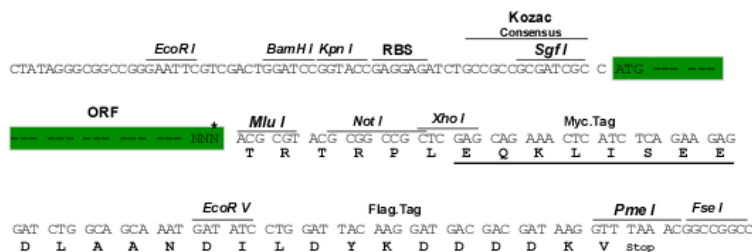
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8039_e09.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001080484

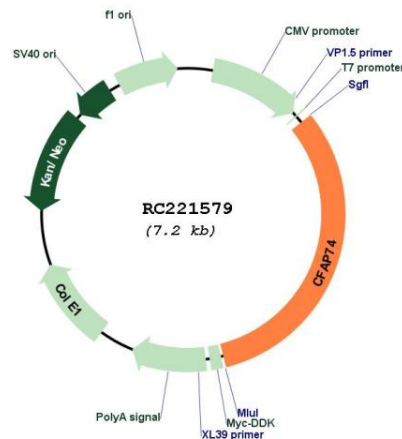
ORF Size: 2286 bp

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](#)

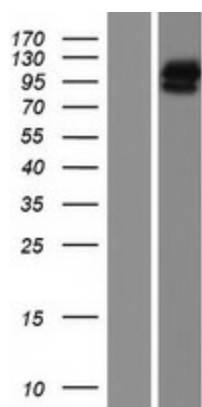
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001080484.1, NP_001073953.1</u>
RefSeq Size:	4710 bp
RefSeq ORF:	2289 bp
Locus ID:	85452
Cytogenetics:	1p36.33
MW:	86.8 kDa
Gene Summary:	As part of the central apparatus of the cilium axoneme may play a role in cilium movement. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC221579



Western blot validation of overexpression lysate (Cat# [LY421039]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221579 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).