

## Product datasheet for **RC209614**

### ODAD4 (NM\_031421) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ODAD4 (NM_031421) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ODAD4
Synonyms:	TTC25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC209614 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGACCCCGAAGGCGAGACCTTGCAGACACCTTCCCTCTTATATGGCCGAAGGCGAGCGGCTCT  
 ACCTGTGCGGGGAATTTCTAAAGCCGCGCAGAGCTTCAGCAACGCTCTTACCTTCAGGATGGAGACAA  
 GAACTGCCTGTTGCTCGCTCAAAGTGCTTCTGAAGATGGGAGACTTGGAGAGATCCCTGAAGGATGCT  
 GAGGCTTCGCTCCAGAGTGACCCAGCTTCTGTAAAGGGATTTGCAAAAGGCTGAGACACTGTACACCA  
 TGGGAGACTTTGAGTTTGCCTTGGTATTCTATCATCGAGGCTACAAGCTGAGGCCTGATCGGGAATTCAG  
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 CCGCCAGCTTCTGGGGAGCTCTACGTGGACAAAGAGTATTTGGAGAAGCTCCTATTGGATGAAGACCTG  
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 CTCACAGCAACTTCTGGAGGCAGCAGAAGCCGATCTACGCCAGGAGCGGGACCGGAAGCTGATGCAAGA  
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 GAATGCCAGATTGAGCTGGGGCAGATGGAGGCAGCCCTGCAGAGCCACAGAAAGGACCTGGAGATCGCC  
 AAGGAATATGACCTTCTGATGCAAAATCGAGAGCCCTTGACAACATTGGCAGAGTTTTTCCAGAGTTG  
 GGAAATCCAGCAAGCCATTGACACGTGGGAAGAAAAGATCCCTCTGGCAAAAACACCCTGGAGAAGAC  
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 GAGAAGTCCCAGCAGTGTGCCGAGGAGGAAGGGGACATTGAGTGGCAACTGAATGCCAGTGTCTGGTGG  
 CCCAGGCACAAGTGAAGCTGAGAGACTTCGAGTCAGCCGTGAACAATTTTGAAGAAGCCCTGGAGAGAGC  
 AAAGCTTGTGCATAACAACGAGGCGCAGCAGGCCATCATCAGTGCCTTGGACGATGCCAACAAGGGTATC  
 ATCAGAGAAGTGAAGAAAACCAACTACGTGGAGAATCTCAAAGAAAAAGCGAGGGAGAAGCTTCACTGT  
 ATGAAGATAGAATAATAACAAGAGAGAAGGACATGAGGAGAGTGAAGATGAGCCCGAGAAGGTGGTGAA  
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 AGCCAGCAAGCGAAAGCAGAGTGTGGAAGCAGGAAAAGCCAGAAGCGATTTGGGAGCAGTTGCCAAGG  
 GCCTGTCAGGAGAATTAGGCACAAGATCAGGAGAAACAGGCAGGAAGCTACTAGAAGCTGGCAGAAGAGA  
 GTCAAGAGAAAATTTATAGGAGGCCTTCGGGAGAATTAGAGCAAAGACTCTCAGGAGAATTCAGCAGACAG  
 GAACCAGAAAGAACTAAAGAAAATTTAGAAAGTGGGCAGAAGAGAGCCAGAAGAACTGGGAAAAACACAAT  
 TTGGAGAAATAGGAGAAACGAAAAAAAACAGGAAA

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209614 protein sequence  
Red=Cloning site Green=Tags(s)

```
MSDPEGETLRSTFPSYMAEGERLYLCGEFSKAAQSF SNALYLQDGNKCLVARSKCF LKMGDLERSLKDA
EASLQSDPAFCCKGILQKAETLYTMGDFEFALVFYHRGYKLRPDREFRVGIQKAQEA INNSVGPSSIKLE
NKGDL SFLSKQAENIKAQQKQPQMKHLLHPTKGEPKWKASLKSEKTVRQLL GEL YVDKEYLEKLLDDEL
IKGTMKGLTVEDLIMTGINYLDTHSNFWRQQKPIYARERDRKLMQEKWLRDHKRRPSQTAHYILKSLED
IDMLL TSGSAEGLQKAEEKVLKKVLEWNKEEVPNKDEL VGNLYSCIGNAQIELGQMEALQSHRKDLEIA
KEYDLPDAKSRALDNIGRVFARVGFQQAIDTWEWKIPLAKTTLEKTWLFHEIGRCYLELDQAWQAQNYG
EKSQQCAEEEGDIEWQLNASVLVAQAQVLRDFESAVNNFEKALERAKLVHNNEAQQAIISALDDANKGI
IRELRKTYVENLKEKSEGEASLYEDRIITREKDMRRVRDEPEKVVKQWDHSEDEKETDEDEAFGEALQ
SPASGKQSVEAGKARSDLGAVAKGLSGELGTRSGETGRKLL EAGRRESREIYRRPSGELEQRLSGEFSRQ
EPEELKKLSEVGRREPEELGKTQFGEIGETKKNRK
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6586\\_d10.zip](https://cdn.origene.com/chromatograms/mk6586_d10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_031421

**ORF Size:** 381 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 Size:** 2310 bp

**RefSeq ORF:** 2019 bp

**Locus ID:** 83538

**UniProt ID:** [Q96NG3](#)

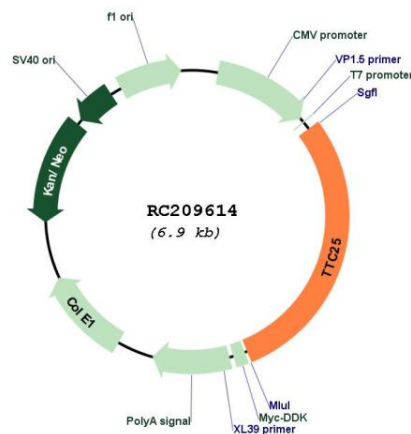
**Cytogenetics:** 17q21.2

**Domains:** TPR

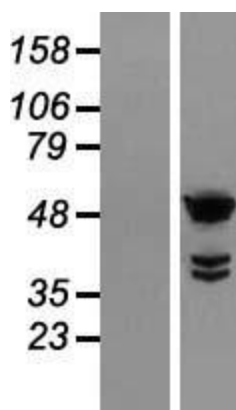
**MW:** 75.8 kDa

**Gene Summary:** This gene encodes a tetratricopeptide repeat domain-containing protein that localizes to ciliary axonemes and plays a role in the docking of the outer dynein arm to cilia. Mutations in this gene cause severely reduced ciliary motility and the disorder CILD35 (ciliary dyskinesia, primary, 35). Primary ciliary dyskinesia is often associated with recurrent respiratory infections, immotile spermatozoa, and situs inversus; an inversion in left-right body symmetry. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Apr 2017]

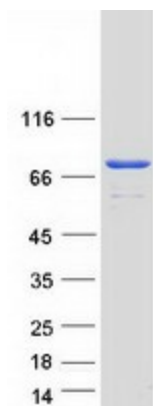
### Product images:



Circular map for RC209614



Western blot validation of overexpression lysate (Cat# [LY410532]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209614 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TTC25 protein (Cat# [TP309614]). The protein was produced from HEK293T cells transfected with TTC25 cDNA clone (Cat# RC209614) using MegaTran 2.0 (Cat# [TT210002]).