OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC306213

ODAD3 (NM_145045) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ODAD3
Synonyms:	CCDC151; CILD30; ODA10
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

```
>OriGene sequence for NM_145045 edited
GGGGCGACTGACTCCTAGTTATCCCCCTAACCCCTAGGGGCCTTCAGCCCCAACCCCATC
ATGACATCTCCTCTGTGCAGGGCGGCCTCCGCCAACGCCCTGCCTCCTCAGGACCAGGCT
TCGACGCCCTCTTCCAGGGTCAAGGGCAGGGAGGCTTCGGGCAAACCCAGCCACCTCCGA
GGCAAGGGCACAGCCCAGGCGTGGACCCCAGGCCGTTCCAAGGGAGGATCCTTCCACAGA
GGTGCAGGGAAGCCCTCTGTGCACTCTCAGGTGGCTGAGTTACATAAAAAGATACAACTG
TTAGAGGGTGACCGGAAGGCTTTTTTTGAGAGCTCTCAGTGGAACATCAAGAAGAACCAG
GAGACCATCAGTCAGCTCCGCAAGGAGACTAAGGCACTGGAACTAAAGCTGCTGGACCTG
CTCAAGGGAGATGAGAAAGTGGTCCAGGCAGTGATTCGCGAATGGAAGTGGGAGAAGCCA
TACCTGAAGAACAGGACAGGACAGGCCCTGGAGCACCTAGACCACCGGCTGAGGGAGAAG
GTGAAGCAGCAGAACGCCCTGCGGCACCAGGTGGTGTTGCGGCAGAGGCGGCTGGAGGAG
CTCCAGCTGCAGCACAGCCTGCGCCTTCTGGAGATGGCGGAGGCGCAAAACAGACACACG
GAGGTGGCCAAGACCATGCGGAACCTGGAGAACCGCCTGGAGAAGGCCCAGATGAAGGCG
CAGGAGGCCGAGCACATTACCAGCGTGTACCTGCAGCTCAAGGCCTATCTAATGGACGAG
AGCCTCAACTTGGAGAACCGGCTGGACTCCATGGAGGCTGAGGTGGTGAGGACCAAACAT
GAGCTGGAGGCACTGCACGTGGTGAACCAAGAGGCCCTCAATGCCCGGGACATTGCCAAG
AACCAGCTGCAGTACCTAGAGGAGACCTTGGTTCGAGAGCGCAAGAAGCGGGAACGCTAC
ATAAGTGAGTGCAAGAAGCGCGCCGAGGAGAAGAAACTGGAGAACGAGCGCATGGAGCGC
AAGACCCACCGCGAGCACCTGCTGCTACAGTCCGACGACACCATCCAGGACAGCCTGCAT
GCCAAGGAGGAGGAGCTGCGGCAGCGCTGGAGCATGTACCAGATGGAGGTGATCTTTGGC
AAGGTCAAGGACGCCACTGGCACTGACGAGACGCACTCGTTGGTGCGGCGGTTCCTGGCC
CAGGGCGACACCTTCGCGCAGTTGGAGACGCTCAAGAGCGAGAACGAGCAGACGTTGGTG
AGGCTGAAGCAGGAGAAGCAACAACTGCAGCGGGAGCTGGAAGACCTCAAGTACTCGGGG
GAGGCCACGCTGGTGAGCCAGCAGAAACTGCAAGCCGAGGCGCAGGAGCGTCTCAAGAAG
GAGGAGCGGCGGCACGCCGAGGCCAAGGACCAGCTGGAGCGCGCCTTGCGGGCGATGCAA
GTGGCCAAGGACAGCCTGGAGCACCTGTCCAGCAAGCTGATCCACATCACTGTGGAGGAC
GGCCGCTTCGCGGGAAAGGAGCTGGATCCCCAGGCAGATAACTATGTGCCAAACCTGCTG
GGCCTCGTGGAGGAAAAGCTGCTGAAACTGCAGGCGCAGCTCCAGGGCCACGACGTGCAG
GAGATGCTGTGCCACATCGCTAACCGCGAGTTCCTCGCCAGCTTAGAGGGAAGGCTGCCC
GAATACAACACCCGCATCGCCCTGCCCCTTGCCACTTCCAAGGACAAGTTTTTTGACGAA
GAGAGTGAGGAGGAGGACAACGAGGTAGTGACCCGCGCATCACTCAAGATCCGTTCCCAG
AAATTAATCGAAAGTCACAAGAAGCACCGTCGCTCTCGGAGGTCCTAGACTCGTCCTGAC
ACCCACCAGGCGGCCCCCTTCGGAGCCCCCGATCCCTCCGGGTCTAGCGCAGGCCCCACG
GGGCCCCTTCAGGGGCTGAACGCGGCCCGGACCGGGAACGGAGGCGGCCAGCGGCGCCCG
GAGGGGAGGAAGGGGCCGGGCCAGACGTTCCCACAGTAAATCTCCCCAGCTGGGTCCGCC
CCGGCCTCAGAGTTGCGCAATAAATGTTACCGACCATGAAAAAAAAAAAAAAAAAA
```

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_145045 unedited
ACGACTCACTATAGGGCGGCCGCGAATTCGCCCTTGGGGCGACTGACTCCTAGTTATCCC
CCTAACCCCTAGGGCCTTCAGCCCCAACCCCATCATGACATCTCCTCTGTGCAGGGCGGC
CTCCGCCAACGCCCTGCCTCCTCAGGACCAGGCTTCGACGCCCTCTTCCAGGGTCAAGGG
CAGGGAGGCTTCGGGCAAACCCAGCCACCTCCGAGGCAAGGGCACAGCCCAGGCGTGGAC
CCCAGGCCGTTCCAAGGGAGGATCCTTCCACAGAGGTGCAGGGAAGCCCTCTGTGCACTC
TCAGGTGGCTGAGTTACATAAAAAGATACAACTGTTAGAGGGTGACCGGAAGGCTTTTTT
TGAGAGCTCTCAGTGGAACATCAAGAAGAACCAGGAGACCATCAGTCAGCTCCGCAAGGA
GACTAAGGCACTGGAACTAAAGCTGCTGGACCTGCTCAAGGGAGATGAGAAAGTGGTCCA
GGCAGTGATTCGCGAATGGAAGTGGGAGAAGCCATACCTGAAGAACAGGACAGGACAGGC
CCTGGAGCACCTAGACCACCGGCTGAGGGAGAAGGTGAAGCAGCAGAACGCCCTGCGGCA
CCAGGTGGTGTTGCGGCAGAGGCGGCTGGAGGAGCTCCAGCTGCAGCACAGCCTGCGCCT
TCTGGAGATGGCGGAGGCGCAAAACAGACACACGGAGGTGGCCAAGACCATGCNGAACCT
GNAGAACCGCCTGGAGAANGCCCAGATGAAGGCGCANNGAGCCGAGCACATTACCAGCGT
GTACCTGCAGCTCAAGGCCTATCTAATGGACGAGAGCCTCAACTTGGAGAACCCGCTGGA
CTNCATGGNNAGCTGAGTGGTGAGGACCAACATGAGCTGGNAGCACTGCACGTGGTGAAC
CNAGAAGCCCCTCATGCCCCGA
```

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_145045 unedited
TTCCAGGGCCGGNAAAGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTCAG
GAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCATGG
TCGGTAACATTTATTGCGCAACTCTGAGGCCGGGGCGGACCCAGCTGGGGAGATTTACTG
TGGGAACGTCTGGCCCGGCCCCTTCCTCCCCTCCGGGCGCCGCTGGCCGCCTCCGTTCCC
GGTCCGGGCCGCGTTCAGCCCCTGAAGGGGCCCCGTGGGGCCTGCGCTAGACCCGGAGGG
ATCGGGGGCTCCGAAGGGGGCCGCCTGGTGGGTGTCAGGACGAGTCTAGGACCTCCGAGA
GCGACGGTGCTTCTTGTGACTTTCGATTAATTTCTGGGAACGGATCTTGAGTGATGCGCG
GGTCACTACCTCGTTGTCCTCCTCCTCACTCTCTTCGTCAAAAAACTTGTCCTTGGAAGT
GGCAAGGGGCAGGGCGATGCGGGTGTTGTATTCGGGCAGCCTTCCCTCTAAGCTGGCGAG
GAACTCGCGGTTAGCGATGTGGCACAGCATCTCCTGCACGTCGTGGCCCTGGAGCTGCGC
CTGCAGTTTCAGCAGCTTTTCCTCCACGAGGCCCAGCAGGTTTGGCACATAGTTATCTGC
CTGGGGATCCAGCTCCTTTCCCGCGAAGCGGCCGTCCTCCACAGTGATGTGGATCAGCTT
GCTGGACAGGTGCTCCAGGCTGTCCTTGGCCACTTGCATCGNCCGCAGGCGCGCTCCAGC
TGGTCCTTGGCCNTCGCGTGCCGNCGCTTCTNCTTCTTGAGACGCTCCTGCGCCCTCGCT
TGCAGTTTCTGCTGGCTCACCAGCGTGGCCTCCCCCGAGTACTTGAGGTCTTCAGCTCCC
GCTGCAGTTGTTGCTTCTN

Restriction Sites: Please inquire

ACCN: NM_145045

Insert Size: 2100 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa and insertion of 1 aa.

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: NM_145045.3, NP_659482.2

RefSeq Size: 2136 bp

RefSeq ORF:	1386 bp
Locus ID:	115948
UniProt ID:	A5D8V7
Cytogenetics:	19p13.2
Gene Summary:	This gene encodes a protein containing coiled-coil domains. The encoded protein functions in outer dynein arm assembly and is required for motile cilia function. Mutations in this gene result in primary ciliary dyskinesia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014] Transcript Variant: This variant (1) encodes the longest isoform (1).