

Product datasheet for **SC336980**

ODAD2 (NM_001290021) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ODAD2 (NM_001290021) Human Untagged Clone
Tag:	Tag Free
Symbol:	ODAD2
Synonyms:	ARMC4; CILD23; gudu
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC336980 representing NM_001290021.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAGGGATTTTCAGCTTAGCTCAAGAACTGCCAGTTGGCCATCAGAGATGTTGGAGGCCTGGAAGTG
CTGATAAATTTGCTTGAACCGATGAAGTCAAATGTAAGATTGGTTCATTAATAAATACTGAAGGAAATC
AGTCATAATCCTCAAATCAGACAGAATATTGTTGACCTTGGGGGCTTACCAATTATGGTGAATATACTT
GATTCTCCACACAAGAGTCTAAATGTTTGGCAGCCGAGACTATCGCGAATGTTGCCAAGTTTAAAAAGA
GCACGGCGGGTGGTGAGGCAGCACGGGGGTATCACAACTGGTGTCTACTAGACTGTGCACATGAT
TCCACAAAACCTGCCAATCGAGTCTGTATGAGGCCAGAGACGTGGAAGTGGCTCGCTGTGGGCGACTG
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CCTCCACCTCCCGGATTCAAGCGATTCTCTGCCTCAGCCTCTGAGTAGCTGGGATTACAGCTTCTAC
TGGATATGGTTGGTCCCCTGACCAGGATCTCCAGGAAGCTGCAGCTGGTTGTATATCCAATATCCGCA
GGCTGGCTCTTGCTACAGAGAAGGCAAGATACACTTGAAATTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001290021

Insert Size: 1839 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).

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:	<u>NM_001290021.1</u>
RefSeq Size:	2585 bp
RefSeq ORF:	1839 bp
Locus ID:	55130
UniProt ID:	<u>Q5T2S8</u>
Cytogenetics:	10p12.1
MW:	67.6 kDa
Gene Summary:	The protein encoded by this gene contains ten Armadillo repeat motifs (ARMs) and one HEAT repeat, and is thought to be involved in ciliary and flagellar movement. This protein has been shown to localize to the ciliary axonemes and at the ciliary base of respiratory cells. Studies indicate that mutations in this gene cause partial outer dynein arm (ODA) defects in respiratory cilia. The cilia of cells with mutations in this gene displayed either reduced ciliary beat frequency and amplitude, or, complete immotility. Some individuals with primary ciliary dyskensia (PCD) have been shown to have mutations in this gene. PCD is characterized by chronic airway disease and left/right body asymmetry defects. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, causing translation initiation at a downstream start codon, and contains an alternate exon in the 3' coding region, which results in a frameshift and a slightly shorter 3' UTR, compared to variant 1. The encoded isoform (2) has a shorter N-terminus and a distinct C-terminus compared to isoform 1.