

Product datasheet for **SC304560**

ODAD2 (NM_018076) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ODAD2 (NM_018076) 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)
Fully Sequenced ORF:	>OriGene sequence for NM_018076 edited

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ATGGGTGTGGCTCTGAGGAAATTGACGCGAGTGGACTGCTGCCGGACATGGAAGTGAATC
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CAGGAAGCTGCAGCTGGTGTATATCCAATATCCGACGGCTGGCTCTTGCTACAGAGAAG
GCAAGATACACTGA

Restriction Sites:	Please inquire
ACCN:	NM_018076
Insert Size:	3200 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_018076.2, NP_060546.2</u>
RefSeq Size:	3572 bp
RefSeq ORF:	3135 bp
Locus ID:	55130
UniProt ID:	<u>Q5T2S8</u>
Cytogenetics:	10p12.1
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 (3) differs in the 5' UTR, compared to variant 1. Variants 1 and 3 encode the same protein (isoform 1).