

Product datasheet for **RC239910**

ODAD2 (NM_001290020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
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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ORF Nucleotide Sequence: >RC239910 representing NM_001290020
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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Protein Sequence:

>RC239910 representing NM_001290020

Red=Cloning site Green=Tags(s)

MGVALRKLTQWTAAGHGTGILEITPLNEAILKEIIVFVESFIYKHPQEAQFVFVEPLEWNTSLAPSFAFES
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YNTMKENSIALNILGKITRDDPESEIKMKIAMLLKQLDLHLLNHSLEISLSPMTVKKDIELLR
FSGKGNQTVLESIEYTSDEYFNGCRAPPWRQIRGEICYLVKPHDGETLCITCSAGGVFLNGGKTDDG
DVNYERKGSYKLVTLREKSPKFSNMSKLGTSFSEDQQKEKDQLGKAPKKEEAAALRKDISGSKRS
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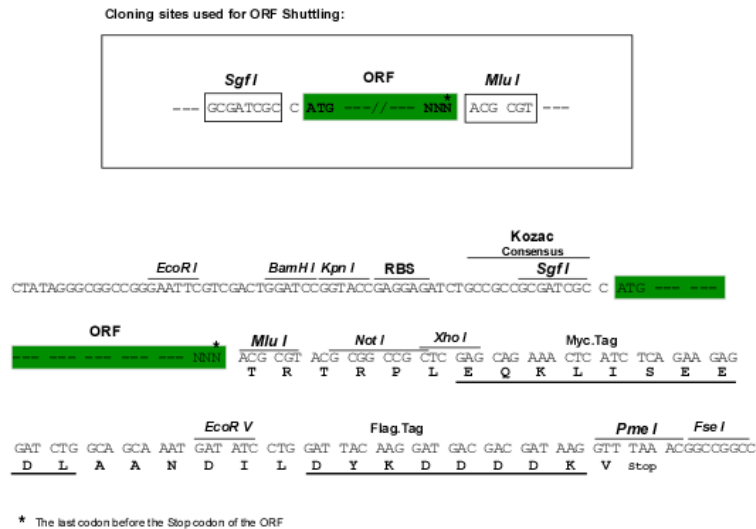
Chromatograms:

https://cdn.origene.com/chromatograms/mk8100_d12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

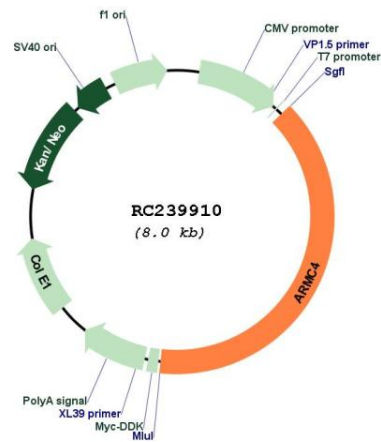
NM_001290020

ORF Size:

3132 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:	NM_001290020.2
RefSeq Size:	3637 bp
RefSeq ORF:	3135 bp
Locus ID:	55130
UniProt ID:	Q5T2S8
Cytogenetics:	10p12.1
MW:	115.7 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]

Product images:



Circular map for RC239910