

## Product datasheet for **RG218743**

### ODAM (NM\_017855) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ODAM (NM_017855) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ODAM
Synonyms:	APIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218743 representing NM_017855 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAATTATAATTCTTCTGGATTCTGGGAGCCACATTGTCAGCCCCACTTATCCCACAGCGTCTCA  
TGTCTGCCAGCAATAGCAATGAGTTACTTCTTAATCTTAATAATGGTCACTTTTGCCACTACAATTCA  
GGGCCACTTAATTCATGGATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTCCA  
GGACTCTCCAGTCTCTTTATCAGCTCTAGACCAGTTTGCTGGACTGCTCCAAATCAGATACCCTTAA  
CAGGAGAGGCCAGTTTTGCCAAGGAGCCAGGCAGGCCAAGTTGATCCCTTACAGCTTCAAACACCGCC  
TCAGACACAACCAGGCCAGTCACGTGATGCCCTATGTATTCTCTTCAAATGCCTCAAGAGCAAGGA  
CAGATGTTTCAATACTATCCAGTTTACATGGTCTACCCTGGGAACAACCTCAGCAAACAGTTCCAAGGT  
CACCTCAACAAACAAGACAGCAACAGTATGAGGAGCAGATACCATTCTATGCTCAATTTGGATACATTCC  
ACAAGTACGAGAACCTGCTATATCAGGAGGACAGCAGCAACTAGCTTTTGATCCCCAACTAGGCACAGCT  
CCTGAAATTGCTGTGATGTCAACAGGAGAAGAGATACCATATTTACAAAAAGAAGCGATCAACTTTAGAC  
ATGACAGTGCAGGAGTTTTCATGCCCTCACTTACCAAAAACCCAGCACAACCAATGTTTCACTTCTGC  
TGTAGACCAAACCTATTACCCAGAGCTCCAGAAGAGAAGGACAAGACTGACAGCCTAAGGAACCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218743 representing NM\_017855  
 Red=Cloning site Green=Tags(s)

MKIIILLGFLGATLSAPLIPQRLMSASNSNELLLNLNNGQLLPLQLQGPLNSWIPPFSGILQQQQQAQIP  
 GLSQFSLSALDQFAGLLPNQIPLTGEASFAQGAQAGQVDPLQLQTPPQTQPGPSHVMPYVFSFKMPQEQG  
 QMFQYYPVYMLPWEQPQQTVPRSPQQTRQQQYEEQIPFYAQFGYIPQLAEPAISGGQQQLAFDPQLGTA  
 PEIAVMSTGEEIPYLQKEAINFRHDSAGVFMPSSTSPKPSTTNVFTSAVDQTITPELPEEKDKTDSLREP

TRTRPLE - GFP Tag - V

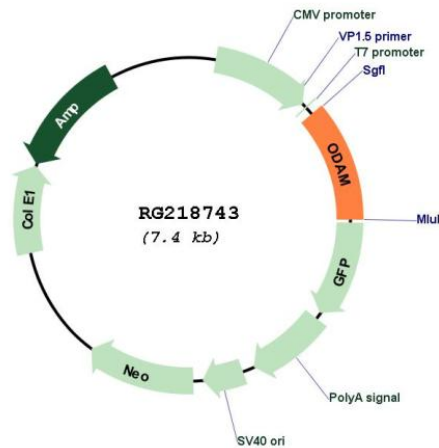
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_017855

**ORF Size:** 837 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_017855.3</a> , <a href="#">NP_060325.3</a>
<b>RefSeq Size:</b>	1301 bp
<b>RefSeq ORF:</b>	840 bp
<b>Locus ID:</b>	54959
<b>UniProt ID:</b>	<a href="#">A1E959</a>
<b>Cytogenetics:</b>	4q13.3
<b>Gene Summary:</b>	Tooth-associated epithelia protein that probably plays a role in odontogenesis, the complex process that results in the initiation and generation of the tooth. May be incorporated in the enamel matrix at the end of mineralization process. Involved in the induction of RHOA activity via interaction with ARHGEF and expression of downstream factors such as ROCK. Plays a role in attachment of the junctional epithelium to the tooth surface.[UniProtKB/Swiss-Prot Function]