

## Product datasheet for **MG221356**

### Odam (NM\_027128) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Odam (NM_027128) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Odam
Synonyms:	2310011G06Rik; APIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221356 representing NM_027128 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGAAATTATAATTCTTCTGGACTCATAGGAGCCTCATCATCAGCCCCGTTATCTCGCAGCGTCTAT  
TGTCTGCTAGCAACAGTCATGAGCTACTCCTGAATCTTAATAATGGTCAACTTTTGCCACTGCAGTTCCA  
GGGTGCCTTCACTCCTGGATTCTCCCTCCCTGGGTTTCTGCAGCAGCAGCAGGCTCAGGTCTCAGGA  
CGCCACAGTTTACTCTCTCAACTAGAGAGCTTTGCTGGACTATTCCCAAATCAGATACCTTTATCAA  
GACAGTTTGGACTTGCCCAAGGAGGCCAGGCTGGCCAGCCAGACCTCTCTCAGCAGCAGACACCCTCA  
GACCCAGCAGAGTGCTAGCCCTATGTCTATGTGGTACCTGTCAAAGTACCTCAAGATCAAACACAGATG  
TTTCAGTACTATCCAGTTTACATGCTTCTGCCCTGGGAGCAGCCTCAGACCGTCACATCCTCACCACAGC  
ACACAGGGCAGCAGCTATTTGAGGAACAGATACCTTTCTATAATCAATTTGGATTTCGACCAACCACAAGC  
AGAACCTGGGGTACCAGGAGGGCAGCAGCACTTAGCTTTTGACAGCTTTGTAGGCACAGCTCCAGAACT  
CCTGGAATGCCAGTAGAAGGAAGCCTGCTTTATCCACAAAAGAACCAATCAGCTTTAAGCATGATAATG  
CAGGAGTTTTCATGCCTACAATTACCAAAGCCAGCACCAGACAATTTTCACTTCTGGGATAGATCC  
AACTATTGCTCCAGAACAGAAGGTCAAGACTGATAGTCTAAGAGAACCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221356 representing NM\_027128  
 Red=Cloning site Green=Tags(s)

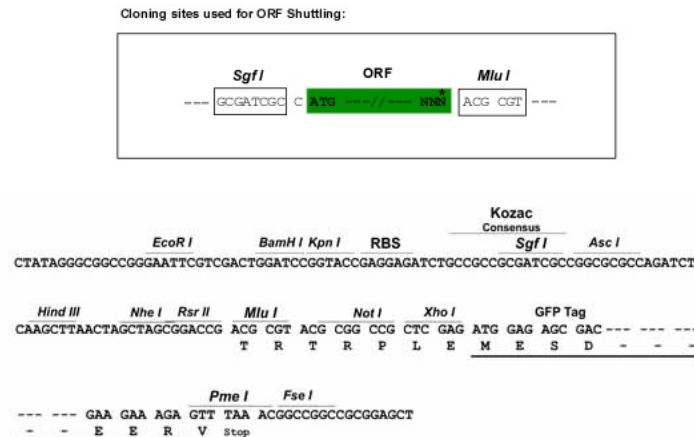
MKIIILLGLIGASSAPLISQRLLSASNSHELLLNNGQLPLQFQGAFNSWIPFPGLQQQAQVSG  
 RPQFTLSTLESFAGLFPNQIPLSRQVGLAQGGQAGQPDLSQQQTPPQTQQSASPMYVVPKVPQDQTM  
 FQYYPVYMLLPWEQPQTVTSSPQHTGQQLFEEQIPFYNQFGFAPPQAEPGVPGGQQLAFDSFVGTAPET  
 PGMPEVGSLLYPQKEPISFKHDNAGVFMPTTSPKPSTDNFFTSGIDPTIAPEQKVKTDSLREP

TRTRPLE – GFP Tag – V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2607\\_f03.zip](https://cdn.origene.com/chromatograms/ja2607_f03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_027128

**ORF Size:** 819 bp

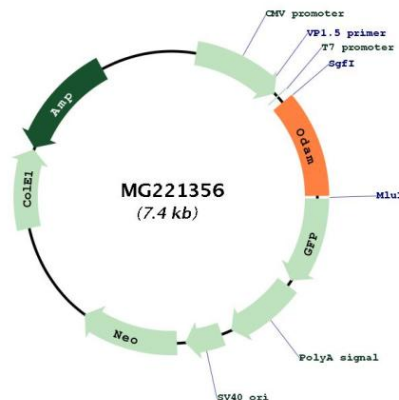
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_027128.3</a></u>
<b>RefSeq Size:</b>	873 bp
<b>RefSeq ORF:</b>	822 bp
<b>Locus ID:</b>	69592
<b>UniProt ID:</b>	<u><a href="#">A1E960</a></u>
<b>Cytogenetics:</b>	5 43.56 cM
<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]

## Product images:



Circular map for MG221356