

Product datasheet for MR221356

Odam (NM_027128) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Odam (NM_027128) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Odam
Synonyms: 2310011G06Rik; APIN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221356 representing NM_027128
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAATTATAATTCTTCTGGACTCATAGGAGCCTCATCATCAGCCCCGTTATCTCGCAGCGTCTAT
 TGTCTGTAGCAACAGTCATGAGCTACTCCTGAATCTTAATAATGGTCAACTTTTGCCACTGCAGTTCCA
 GGGTGCCTTCAACTCCTGGATTCCTCCCTCCCTGGGTTTCTGCAGCAGCAGCAGGCTCAGGTCTCAGGA
 CGCCACAGTTTACTCTCTCAACTAGAGAGCTTTGCTGGACTATCCCAAATCAGATACCTTTATCAA
 GACAGTTGGACTTGCCCAAGGAGGCCAGGCTGGCCAGCCAGACCTCTCTCAGCAGCAGACACCACCTCA
 GACCCAGCAGAGTGCTAGCCCTATGTCCCTATGTGGTACCTGTCAAAGTACCTCAAGATCAAACACAGATG
 TTTCACTACTATCCAGTTTACATGCTTCTGCCCTGGGAGCAGCCTCAGACCGTCACATCCTCACCACAGC
 ACACAGGGCAGCAGCTATTTGAGGAACAGATACCTTTCTATAATCAATTTGGATTTCGACACCACCAAGC
 AGAACCTGGGGTACCAGGAGGGCAGCAGCACTTAGCTTTTGACAGCTTTGTAGGCACAGCTCCAGAACT
 CCTGGAATGCCAGTAGAAGGAAGCCTGCTTTATCCAAAAAAGAACCAATCAGCTTTAAGCATGATAATG
 CAGGAGTTTTATGCCTACAACCTCACAAAGCCAGCACCGACAATTTTTCTACTTCTGGGATAGATCC
 AACTATTGCTCCAGAACAGAAGGTCAAGACTGATAGTCTAAGAGAACCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221356 representing NM_027128
 Red=Cloning site Green=Tags(s)

MKIIILLGLIGASSAPLISQRLLSASNSHELLLNLNNGQLLPLQFQGFNSWIPFPFGFLQQQQAQVSG
 RPQFTLSTLESFAGLFPNQIPLSRQVGLAQGGQAGQPDLSQQQTPPQTQQSASPMYSVVVPKVPQDQTM
 FQYYPVYMLLPWEQPQTVTSSPQHTGQQLFEEQIPFYNQFGFAPPQAEPGVPGGQQHLAFDSFVGTAPET
 PGMPEVGSLLYPQKEPISFKHDNAGVFMPTTSPKPSTDNFFFTSGIDPTIAPEQKVKTDSLREP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1793_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027128

ORF Size: 819 bp

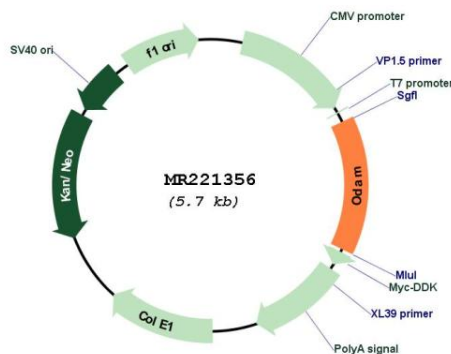
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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.

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:	<ol style="list-style-type: none"> 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_027128.3</u>
RefSeq Size:	873 bp
RefSeq ORF:	822 bp
Locus ID:	69592
UniProt ID:	<u>A1E960</u>
Cytogenetics:	5 43.56 cM
MW:	30.3 kDa
Gene Summary:	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 MR221356