

Product datasheet for **RR212100**

Odam (NM_001044274) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Odam (NM_001044274) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Odam
Synonyms: Apin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212100 representing NM_001044274
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAAATTATAATTCTTCTGGACTCATCGGAGCTACATCGTCAGCCCCGTTATAACACAGCGTCTAT
TGTCGTCTAGCAACAGCCATGAGTTACTCCTGAATCTTAATAATGGTCACTTTTGCCACTGCAATTTCA
GAGCGCCTTCAACTCCTGGATTCTCCCTCCCTGGGCTTCTACAGCAGCAACAGCAGCAGGCTCAGGTC
TCAGGACACCCACAGTTTCTCTCAACTAGAGAGCTTTGCTGGGCTATTCCCAAATCAGATACCTT
TCTCAAGACAGGTTGGGTTTGCCCAAGGAGGTCAGGCTGGCCAGCCAGACTTCTCACAGCAGCAGACACC
ATCTCAGACCCAGCAGGCTAGTCTATGTCTATGTGGTTCTGTAAAAGTGCCTCAAGATCAAACACAG
ATGTTTCAGTACTACCCAGTTTACATGCTTCTGCCCTGGGAGCAACCACAGCAGACAGTCACATCCTCTC
CCCAGCAGACAGGGCAGCAGCTATACGAGGAACAGATACCATTCTATAATCAATTTGGATTTGTACCACA
ACAAGCAGAACCTGGTGTACCAGGAGGACAGCAGCACTTAGTTCTTGACAGCTTTGTAGGCACAGCTCCA
GAACTCCTGGAATGCCAGCAGTAGAAGGCCCGCTGTATCCACAAAAAGAACCAATCGGCTTTAAGCAAG
ATAATGTAGGCGTTTCCACGCCCTCAACTTCACCAAACCCGACACGGCAATTTTTCTACTTCTGAAAT
AAACCCGACGATTGCTCCACTGCTTCCAGAACAGAAGGTCAATGCTGATAGCCTAAGAGAACCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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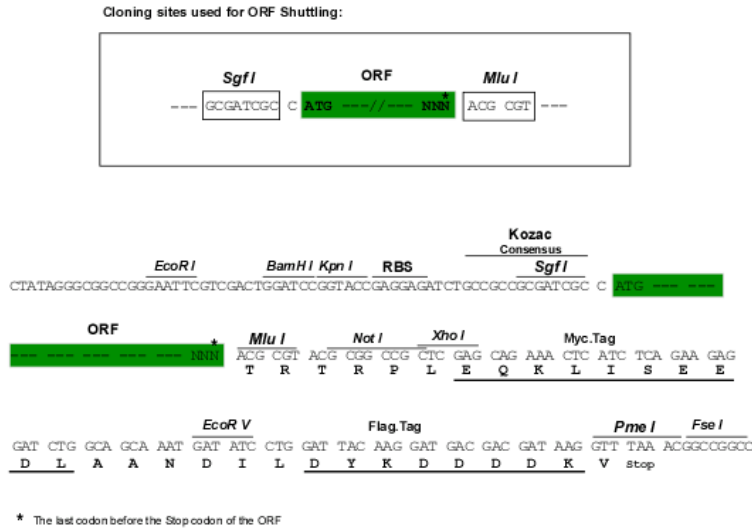
Protein Sequence: >RR212100 representing NM_001044274
Red=Cloning site Green=Tags(s)

MKIIILLGLIGATSSAPLITQRLLSASNSHELLLNLNNGQLLPLQFQSAFNSWIPFPGLLQQQQQQAQV
 SGHPQFPLSTLESFAGLFPNQIPFSRQVGF AQGGQAGQPDFSQQTPTSQTQASPMSYVVPVKVPQDQTQ
 MFQYYPVYMLLPWEQPQQTVTSSPQQTGQQLYEEQIPFYNQFGFVPPQAEFVPGVGGQQLVLD SFVGTAP
 ETPGMPAVEGPLYPQKEPIGFKQDNVGVSTPSTSPKPD TGNNFTSEINPTIAPLLPEQKVNADSLREP

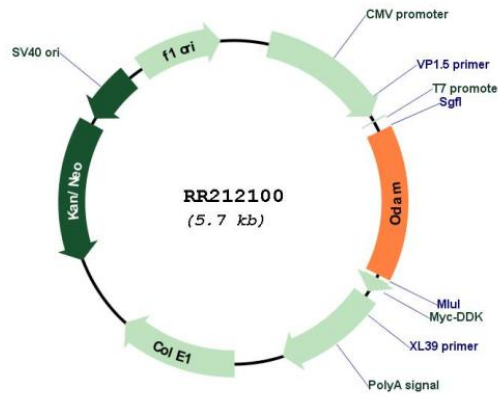
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001044274
ORF Size: 834 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:	<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:	NM_001044274.1 , NP_001037739.1
RefSeq Size:	1189 bp
RefSeq ORF:	837 bp
Locus ID:	641555
UniProt ID:	Q3HS83
Cytogenetics:	14p21
MW:	30.4 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]