

Product datasheet for RC233364

ODAPH (NM_001206981) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ODAPH (NM_001206981) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ODAPH
Synonyms:	AI2A4; C4orf26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233364 representing NM_001206981 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCGCAGACACTGCTTCTCCTACTGGTACTGGTATGCTGGTTGGTGGTAACTGTGGCAGAAGCAC
TGTCCACTTTCTATCTCCAGCAGCATATTAATTTGCACATGGACAAGAAGAGGTATTTACGCCTCCTGGA
GATTCACAAAATAATGCGGACGCTACCGACTGCCAGATCTTTACACTACCCCTCCACCTGCCCGAGGA
GTCCGGTCACAAGGGCCAGCCCATCACAAGACACCCAGGTGTCCTTCCATTTTTTCCACGAAGGCC
CAGAATCCATTTTAGGTTTCAAACAGACCTTTCGTCCCTCAAGGTGTAACCACCGTTTTCCATTCCAG
CCATTTTATTGGCCACACCGTTACCTTACTTATAGGTATTTCCCAAGAAGAGACTCCAGAGAGGAAGCT
CATCTGAGGAAAGCTGAGAGGGAAGAGAAACCAACATACTGAAGCAAAAAAAGCCTATCCTTCAGAA
AAAAGCAAAAAAGATTCTGTTTATCTTTCGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC233364 representing NM_001206981 Red=Cloning site Green=Tags(s)
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MARRHCFSYWLLVCWL VVTVAEALSTFY LQQHINLHMDKKRYLRLL EIHKIMRTLPTARSLHSPLHLPRG
VRSQGPSQSRHPGVPSIFFHEGPESILGFQTDLSLQGVTVFHS HFIGHTVTL LIGISPEEDSREEA
HLRKAEREKPKHTEAKKSL SFRKKQKDFCFIFRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	SgfI-MluI
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Cloning Scheme:



ACCN: NM_001206981

ORF Size: 528 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_001206981.2](#)

RefSeq Size: 1926 bp

RefSeq ORF: 531 bp

Locus ID: 152816

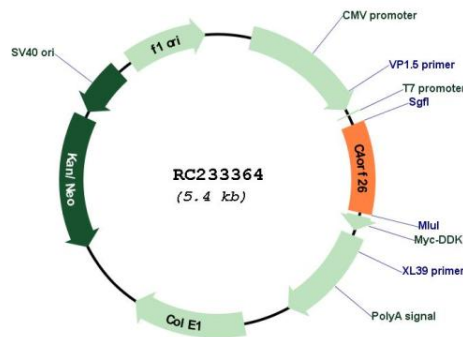
UniProt ID: [Q17RF5](#)

Cytogenetics: 4q21.1

MW: 20.9 kDa

Gene Summary: Dental enamel forms the outer cap of teeth and is the hardest substance found in vertebrates. This gene is thought to encode an extracellular matrix acidic phosphoprotein that has a function in enamel mineralization during amelogenesis. Mutations in this gene are associated with recessive hypomineralized amelogenesis imperfecta. [provided by RefSeq, Oct 2012]

Product images:



Circular map for RC233364