

Product datasheet for RC210984

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

OriGene Technologies, Inc.

Otoraplin (OTOR) (NM 020157) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Otoraplin (OTOR) (NM_020157) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: Otoraplin Synonyms: FDP; MIAL1 **Mammalian Cell** Neomycin

Selection:

ORF Nucleotide

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) >RC210984 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCAAGAATATTGTTACTTTTCCTCCCGGGTCTTGTGGCTGTATGTGCTGTGCATGGAATATTTATGG ACCGTCTAGCTTCCAAGAAGCTCTGTGCAGATGATGAGTGTCTATACTATTTCTCTGGCTAGTGCTCA AGAAGATTATAATGCCCCGGACTGTAGATTCATTAACGTTAAAAAAAGGGCAGCAGATCTATGTGTACTCA AAGCTGGTAAAAGAAAATGGAGCTGGAGAATTTTGGGCTGGCAGTGTTTATGGTGATGGCCAGGACGAGA TGGGAGTCGTGGGTTATTTCCCCAGGAACTTGGTCAAGGAACAGCGTGTGTACCAGGAAGCTACCAAGGA

AGTTCCCACCACGGATATTGACTTCTTCTGCGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

>RC210984 protein sequence **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MARILLLFLPGLVAVCAVHGIFMDRLASKKLCADDECVYTISLASAQEDYNAPDCRFINVKKGQQIYVYS

KLVKENGAGEFWAGSVYGDGQDEMGVVGYFPRNLVKEQRVYQEATKEVPTTDIDFFCE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6371 e02.zip

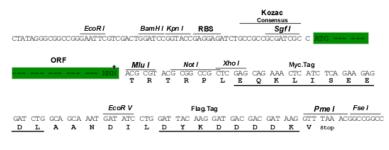
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_020157

ORF Size: 384 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.

RefSeq: NM 020157.4

RefSeq Size: 1482 bp
RefSeq ORF: 387 bp
Locus ID: 56914
UniProt ID: Q9NRC9



Cytogenetics: 20p12.1

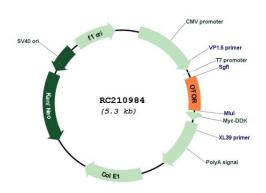
Protein Families: Secreted Protein, Transmembrane

MW: 14.3 kDa

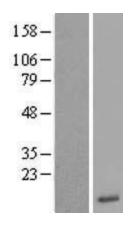
Gene Summary: This gene encodes a member of the melanoma-inhibiting activity gene family. The encoded

protein is secreted via the Golgi apparatus and may function in cartilage development and maintenance. A frequent polymorphism in the translation start codon of this gene can abolish translation and may be associated with forms of deafness. [provided by RefSeq, Jul 2013]

Product images:

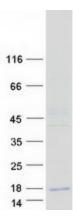


Circular map for RC210984



Western blot validation of overexpression lysate (Cat# [LY412640]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210984 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified OTOR protein (Cat# [TP310984]). The protein was produced from HEK293T cells transfected with OTOR cDNA clone (Cat# RC210984) using MegaTran 2.0 (Cat# [TT210002]).