

## Product datasheet for RC211259

### OTOS (NM\_148961) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** OTOS (NM\_148961) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** OTOS  
**Synonyms:** OTOSP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC211259 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

**ATG**CAGGCCTGCATGGTGCCGGGCTGGCCCTCTGCCTCCTACTGGGCCTCTTGCAGGGGCCAAGCCTG  
TGCAGGAGGAAGGAGACCCTTACGCGGAGCTGCCGGCCATGCCCTACTGGCCTTCTCCACCTCTGACTT  
CTGGAAGTATGTGCAGCACTTCCAGGCCCTGGGGCCTACCCCGAGATCGAGGACATGGCCCGAACCTTC  
TTTGCCCACTTCCCCTGGGGAGCACGCTGGGCTTCCAGTTCCTATCAGGAGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC211259 protein sequence  
Red=Cloning site Green=Tags(s)  
MQACMVPGLALCLLLGPLAGAKPVQEEGDPYAELPAMPYWPFFSTSDFWNYVQHFQALGAYPQIEDMARTF  
FAHFPLGSTLGFHVPYQED

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6766\\_a06.zip](https://cdn.origene.com/chromatograms/mk6766_a06.zip)

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_148961

**ORF Size:** 267 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\\_148961.4](#)

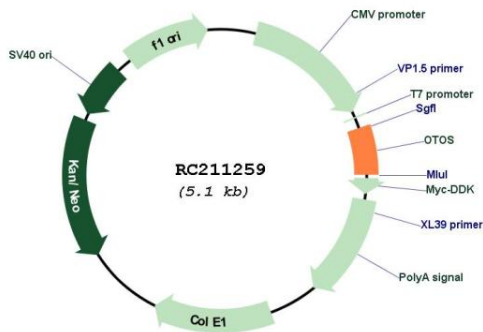
**RefSeq Size:** 566 bp

**RefSeq ORF:** 270 bp

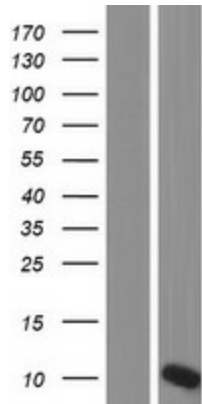
**Locus ID:** 150677

**UniProt ID:** [Q8NHW6](#)  
**Cytogenetics:** 2q37.3  
**Protein Families:** Secreted Protein  
**MW:** 9.9 kDa  
**Gene Summary:** Otopiralin is synthesized by nonsensory cells (fibrocytes) of the inner ear, and downregulation of otopiralin in guinea pigs leads to deafness (Lavigne-Rebillard et al., 2003 [PubMed 12687421]).[supplied by OMIM, Mar 2008]

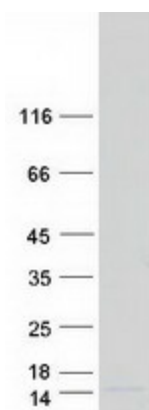
**Product images:**



Circular map for RC211259



Western blot validation of overexpression lysate (Cat# [LY407724]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211259 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OTOS protein (Cat# [TP311259]). The protein was produced from HEK293T cells transfected with OTOS cDNA clone (Cat# RC211259) using MegaTran 2.0 (Cat# [TT210002]).