

Product datasheet for **RG211259**

OTOS (NM_148961) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OTOS (NM_148961) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: OTOS
Synonyms: OTOSP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211259 representing NM_148961
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCAGGCCTGCATGGTGCCGGGCTGGCCCTCTGCCTCCTACTGGGCCTTTGCAGGGGCCAAGCCTG
 TGCAGGAGGAAGGAGACCCTTACGCGGAGCTGCCGGCCATGCCCTACTGGCCTTTCTCCACCTCTGACTT
 CTGGAACATGTGCAGCACTTCCAGGCCCTGGGGCCTACCCAGATCGAGGACATGGCCGAACCTTC
 TTTGCCCACTTCCCCTGGGAGCACGCTGGGCTTCCAGTTCCCTATCAGGAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211259 representing NM_148961
 Red=Cloning site Green=Tags(s)

MQACMVPGLALCLLLGPLAGAKPVQEEGDPYAELPAMPYWPFFSTSDFWNYVQHFQALGAYPQIEDMARTF
 FAHFPLGSTLGFHVPYQED

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

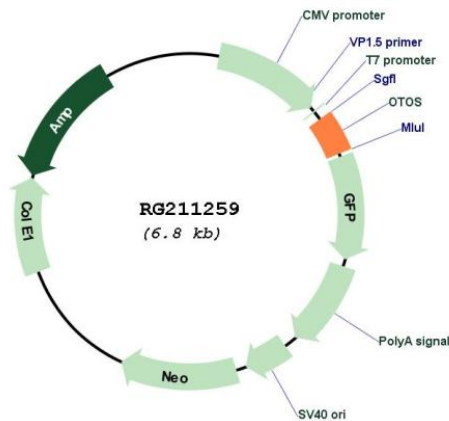


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Cloning Scheme:



Plasmid Map:



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:	<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_148961.4
RefSeq Size:	566 bp
RefSeq ORF:	270 bp
Locus ID:	150677
UniProt ID:	Q8NHW6
Cytogenetics:	2q37.3
Protein Families:	Secreted Protein
Gene Summary:	Otospiralin is synthesized by nonsensory cells (fibrocytes) of the inner ear, and downregulation of otospiralin in guinea pigs leads to deafness (Lavigne-Rebillard et al., 2003 [PubMed 12687421]).[supplied by OMIM, Mar 2008]