

Product datasheet for **RG212026**

OTOGL (NM_173591) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	OTOGL
Synonyms:	C12orf64; DFN84B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG212026 representing NM_173591
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTCAAGTTCGACAGGAAGAACCTTGTGTTTTCCCTTTTTGTGTTTGTGAATCTTGACCAAAAC
CTGTTCCACTATGTCATGATGGGAATTTCTCACAGTAGATCTTAATAGCACACACTTCTGTTGTCTCA
GTATTACTGTGTATGTGAACCAACCTTTGTCTATGCCATTACTCAACTGTGCAGAAGATATGAATCTT
TGAAAAGAAAATGTATCTGGTCAATGTTGCCAACATGGCACTGTGAATGTAAGTGTGAAAACCTTGTTA
TGCCAACTTGTGAAGTGGGAGAATTTACTGCAATAGACCATAACTTCCAGAGTGATTGTGGATGCATACA
GTATCTCTGTGAAAAGGATGATGTGTGTATTCAAGAAGTATCAGTATTGAATCCTGGACAATCCATG
ATAAAGTATTTGAAGAAGACTTTTGTATACTATAGAGTGTCTGGAAGAAAAAGATAACCATACAGGCT
TTCACACTCTGAATTTTACACTGGTGAATTGTTCAAAAAATGTGATGTTCCACAGGTATATACTCCATC
CCCAAGTGATTATGGTTGTTGTGGTACCTGCAAAAATGTATCCTGCAAAATTCACATGAAAATGGAACA
TCAGTTGTATACGCGGTAGGGAGTACCTGGCACTACAATTGCACCACATATGAATGTGTTAAACTGATG
AAGGAGCAATAATTCTGAACACACAATGGTCTGTCCCCCTTTTATGAGACTGAATGCAAAATGAATGA
AGGGATTGTGAAGCTTTATAATGAAGGCTGTTGCAAGATCTGCAACGAGAAGAAAGAAATATGCCAGAAA
GTGATCATTGAATCGGTACATAAGGAAACAGGACTGTATGAGCCAAAGCCCTATAAATGTTGCATCTTGTG
ACGGCAAAATGCCCATCAGCTACCATATATAACATCAATATTGAAAGTCACCTAAGATTCTGCAAGTGTG
TCGTGAAAATGGAGTACGAACTTGTCTGTGCCTCTGTATTGCTCAGGAAATGGCACTGAAATTATGTAC
ACTCTCCAGGAACCATAGACTGTACATGCCAGTGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



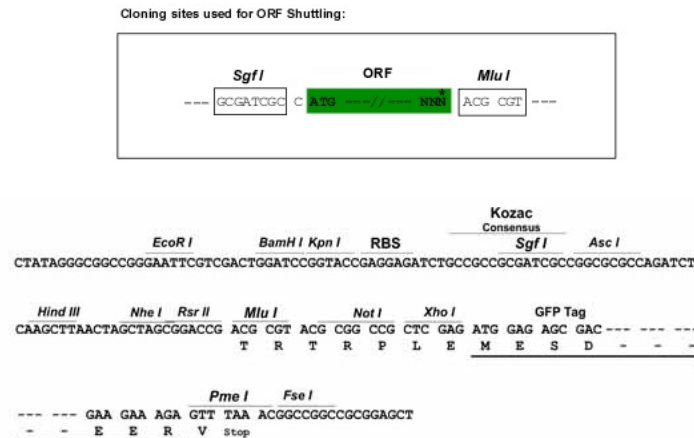
Protein Sequence: >RG212026 representing NM_173591
Red=Cloning site Green=Tags(s)

MIQVRQEPCCFSPFCVCESTKPVPLCHDGEFLTVDLNSTHFCCPQYYCVCEPNLCPMPLLNCAEDMNL
VKENVSGQCCPTWHCECNENLVMPTEVGEFTAIDHNFQSDCGCIQYLCEKDDVCVFQEVSVLNPQSM
IKYLEEDFCYTIIECLEEKDNHTGFHTLNFNLVNSKKCDVHQVYTPSPSDYGCCGCKNVSKFHMENGT
SVVYAVGSTWHYNCTTYECVKTDGAILNYTMVCPFFNETECKMNEGIVKLYNEGCKICKREERICQK
VIIESVIRKQDCMSQSPINVASCDGKCPSATIYNINIESHLRFCKCCRENGVRNLSVPLYCSGNGTEIMY
TLQEPIDCTCQWN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173591

ORF Size: 1089 bp

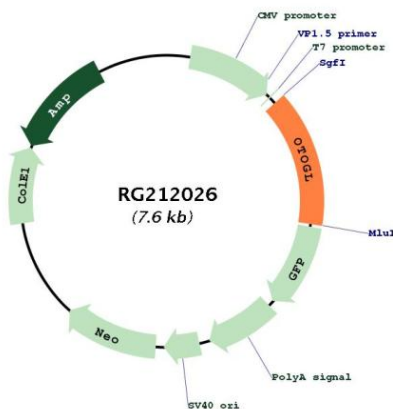
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_173591.1</u> , <u>NP_775862.1</u>
RefSeq Size:	2361 bp
RefSeq ORF:	7062 bp
Locus ID:	283310
UniProt ID:	<u>A0A0A0MSS2</u>
Cytogenetics:	12q21.31
Gene Summary:	The protein encoded by this gene belongs to the otogelin family. This gene is expressed in the inner ear of vertebrates with the highest level of expression seen at the embryonic stage and lowest in adult. Knockdown studies in zebrafish suggest that this gene is essential for normal inner ear function. Mutations in this gene are associated with autosomal recessive deafness. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG212026