

Product datasheet for **RG218230**

OTOA (NM_170664) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OTOA (NM_170664) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OTOA
Synonyms:	CT108; DFNB22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG218230 representing NM_170664
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTTTCAGGCTGGGGCTGCTGGTTTGTCTACAATGACCTGGAATTGCTGGATGCCACTGTGGCTCAAG
 TCCTGCTTTACCAGATGATCAAGTGCAGCCACCTGAGGGGCTTCCAGGCTGGCGTCCAGAAGCTCAAAGC
 AGAACTCCTGGACATTGCCATGGAGAACCAGACCTCAATGAGACCTGGGTTCTTTGTCGGATGCAGTT
 GTAGGTTTGACCTACAGCCAACCTGGAATCCCTCTCCCCGAGGCTGTGCACGGAGCCATCTCCACCTCA
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 GCTGTCTTTTACAATGTCAGCCAGATGGGCGCACTGCTGGCTGGGGTCAGCACCCAGGCCTTCTGCAGC
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 TCCATTGCTGATGAGTACACTGTGGACATCATGGGAACCTGCTGTGTCATTGCCGGCAGCCATCATCG
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 TGCGGTGCATGGAGGAAGACACATTATCAGGACCGTGGAACTGCTGGGAGCTGTCCAGGGTTTCAGCCG
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 CACTCCTGGCAGGACGCGCCGCTAGCGCGGTCCCACTAGAACCCTCATCCTCGCGTTCTCCCGCAGGAG
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ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

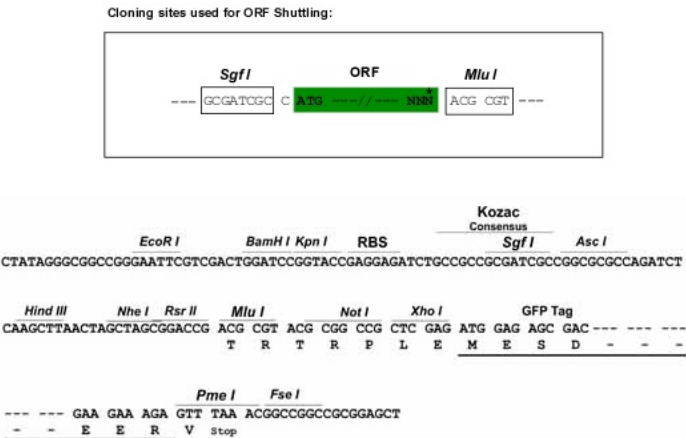
Protein Sequence: >RG218230 representing NM_170664
 Red=Cloning site Green=Tags(s)

MFRLGLLVCFYNDLELLDATVAQVLLYQMIKCSHLRGFQAGVQKLKAELLDIAMENQTLNETLGSLSDAV
 VGLTYSQLESLSPEAVHGAISTLNQVSGWAKSQVIILSAKYLAHEKVL SFYNVSQMGALLAGVSTQAFCS
 MKRKDISQVLRSAVSQYVSDLSPAQQQGILSKMVQAEDTAPGIVEIQGAFFKEVSLFDLRRQPGFNSTVL
 KDELGSRSQALFLYELLKTTTRRPEELLSAGQLVKGVTCSHIDAMSTDFFLAHFQDFQNNFALLSPYQVN
 CLAWKYWEVSRLSMPPFLAALPARYLASVPASQCVPFILSLGKSWLDSLVLDSHKKTSVLRKVQQCLDD
 SIADEYTVDIMGNLLCHLPAAIIDRGISPRAWATALHGLRDCPDLNPEQKAAVRLKLLGQYGLPQHWTAE
 TTKDLGPFLVLFSGDELSSIATKFPEILLQAASKMARTLPTKEFLWAVFQSVRNSSDKIPSYPMPGCHG
 VVAPSSDDIFKLAEANACWALEDLRCMEEDTFIRTVELLGAVQGFSRPQLMTLKEKAIQVWDMPSYWREH
 HIVSLGRIALALNESELEQLDLSSIDTVASLSWQTEWTPGQAESILQGYLDDSGYSIQDLKSFHLVGLGA
 TLCAINITEIPLIKISEFRVVVARIGTLLCSTHVLAEFKRKAEEVFGDPTEWTSVLQELGTIAAGLTKA
 ELRMLDKDLMPYFQPSAIKCLPDEIFKELSAEQIASLGPENAAAVTHAQRRLSPLQLQSLQQALDGAKT
 HSWQDAPASAGPTRTSSSRSPAGALQSWGLWLGCPLLVLMAKLLW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_170664
ORF Size:	2445 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_170664.3](#)

RefSeq Size: 2718 bp

RefSeq ORF: 2448 bp

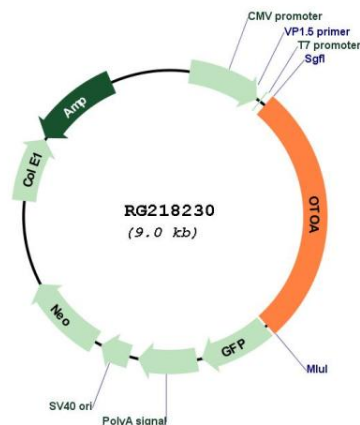
Locus ID: 146183

UniProt ID: [Q7RTW8](#)

Cytogenetics: 16p12.2

Gene Summary: The protein encoded by this gene is specifically expressed in the inner ear, and is located at the interface between the apical surface of the inner ear sensory epithelia and their overlying acellular gels. It is proposed that this protein is involved in the attachment of the inner ear acellular gels to the apical surface of the underlying nonsensory cells. Mutations in this gene are associated with autosomal recessive deafness type 22 (DFNB22). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RG218230