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Product datasheet for RC221145

OTOA (NM_144672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OTOA (NM_144672) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OTOA
Synonyms:	CT108; DFNB22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC221145 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTCAGGAACCTACGACATACTCCCTTTTCCTATTCCTTTTTCTGAGCCATGGAGTGTCGAGTTATA
CAGTGCCAAATTCCAGGCAGGATTTGCATCCATTGTTGCAAAACATGGCGGAAGAAATAATAGATGGAAG
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CAAGGTATCCTCAGCAAGATGGTCCAAGCGGAAGACACTGCCCCAGGCATCGTGGAGATACAAGGGGCTT
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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221145 protein sequence
Red=Cloning site Green=Tags(s)

MSQEPTTYSLFLFLFLSHGVSSYTVPNSRQDLHPLLQNMAEEIIDGSYLNALLDLIQFQSSHVWTDDLSH
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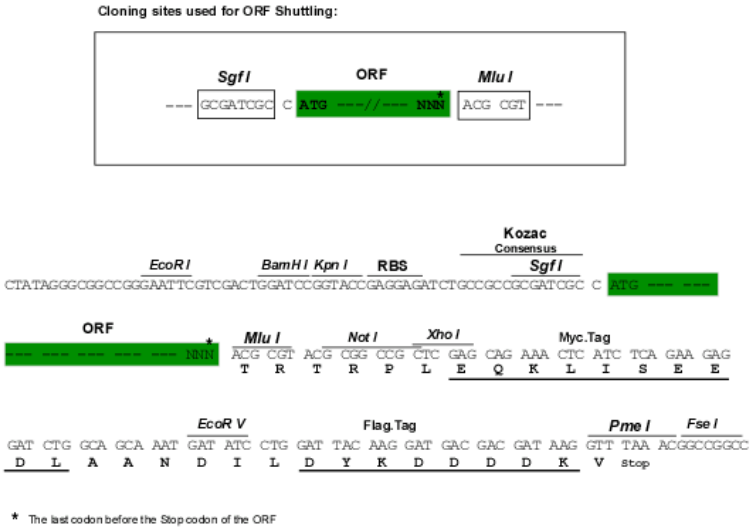
SWGLWLGCPLLVLMAKLLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6680_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

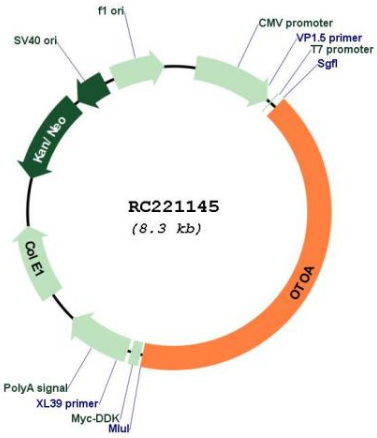


ACCN: NM_144672

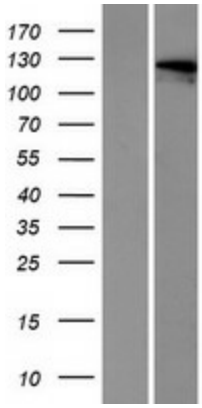
ORF Size: 3417 bp

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_144672.3, NP_653273.3
RefSeq Size:	3624 bp
RefSeq ORF:	3420 bp
Locus ID:	146183
Cytogenetics:	16p12.2
MW:	126.8 kDa
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 prposed 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]

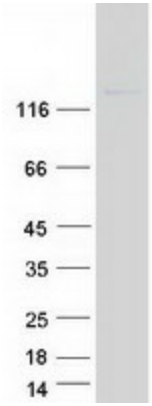
Product images:



Circular map for RC221145



Western blot validation of overexpression lysate (Cat# [LY408211]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221145 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OTOA protein (Cat# [TP321145]). The protein was produced from HEK293T cells transfected with OTOA cDNA clone (Cat# RC221145) using MegaTran 2.0 (Cat# [TT210002]).