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Product datasheet for SC306178

OTOA (NM_144672) Human Untagged Clone

Product data:

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

Fully Sequenced ORF:

>SC306178 representing NM_144672.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTCAGGAACCTACGACATACTCCCTTTTCCTATTCCTTTTTCTGAGCCATGGAGTGTCGAGTTAT
ACAGTGCCAAATTCCAGGCAGGATTTGCATCCATTGTTGCAAAACATGGCGGAAGAAATAATAGATGGA
AGCTATCTGAATGCACTGCTGGATCTCATACAGTTTCAAAGCTCCCACGTGTGGACGGATGACCTGTCC
CACAGAGTCCTGGCCTATCTGAATTCCCGGAATGTTGCCTTCACCATCCCCAGCCTGCAGGCAGCCGTG
GAAAACCACCTGGAGCAGCGTCTGCACCAGCCCCAGAAGCTGCTGGAGGACCTGAGGAAGACAGACGCC
CAGCAGTTCCGCACTGCCATGAAATGCCTCTTAGAAGACAAGAAGGACGGCTTGGACCTGAAAGACATC
ATCATCGACTTAGGAGAGATTCGAGAACGAGCCTTGCAGAGCCCTGGCGTGAACCGCAGCCTGTTTCTC
ATCACACTGGAGAGGTGTTTCCAGATGCTGAACTCCCTGGAGTGTGTGGAGATCCTGGGCAAGGTGCTG
AGGGGGTCCTCAGGGAGCTTTCTCCAGCCAGACATCACAGAGCGGCTCCCTCGGGACCTGCGCGAGGAT
GCCTTTAAGAACCTATCTGCAGTGTTCAAAGATCTCTACGACAAAACCTCGGCTCATTCCCAGAGAGCT
CTCTATTCCTGGATGACTGGAATACTGCAGACATCCTCCAATGCCACTGATGACTCTGCTTCATGGGTC
AGTGCGGAACACTTATGGGTTTTGGGCAGATACATGGTTCACCTATCGTTTGAAGAAATTACGAAAATT
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TCCACCATCCACAGGCTGGGGCTGCTGGTTTGTTTCTACAATGACCTGGAATTGCTGGATGCCACTGTG
GCTCAAGTCCTGCTTTACCAGATGATCAAGTGCAGCCACCTGAGGGGCTTCCAGGCTGGCGTCCAGAAG
CTCAAAGCAGAACTCCTGGACATTGCCATGGAGAACCAGACCCTCAATGAGACCCTGGGTTCTTTGTCG
GATGCAGTTGTAGGTTTGACCTACAGCCAACTGGAATCCCTCTCCCCCGAGGCTGTGCACGGAGCCATC
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CATGAGAAGGTGCTGTCTTTCTACAATGTCAGCCAGATGGGCGCACTGCTGGCTGGGGTCAGCACCCAG
GCCTTCTGCAGCATGAAACGCAAGGACATCTCGCAGGTCCTGAGAAGTGCCGTCTCCCAGTATGTATCC
GACTTGTCACCTGCCCAGCAGCAAGGTATCCTCAGCAAGATGGTCCAAGCGGAAGACACTGCCCCAGGC

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ATCGTGGAGATACAAGGGGCTTTCTTTAAGGAAGTGTCTCTCTTTGATTTAAGGAGGCAACCTGGATTC
AACTCTACAGTCCTGAAGGATAAGGAACTTGGAAGGAGCCAGGCTCTGTTCCTGTATGAGCTTCTGTTA
AAGACCACCAGAAGGCCTGAGGAGCTTTTGAGTGCTGGGCAGCTGGTCAAAGGCGTGACCTGCTCACAC
ATTGATGCCATGAGCACTGACTTCTTTCTGGCCCATTTCCAGGATTTTCAGAACAACTTCGCCCTGCTT
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CTCTTGGCTGCACTCCCGGCCCGCTACCTGGCTTCTGTCCCAGCCTCCCAGTGTGTGCCCTTTCTGATC
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GTGCAGCAGTGCCTGGACGACTCCATTGCTGATGAGTACACTGTGGACATCATGGGGAACCTGCTGTGT
CACTTGCCGGCAGCCATCATCGACAGGGGGATCTCCCCCAGGGCTTGGGCGACTGCTCTACACGGCCTC
AGAGACTGCCCAGACCTCAACCCTGAGCAAAAGGCTGCAGTGAGGCTCAAGCTCCTGGGACAGTATGGA
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GAATTAAGCTCTATAGCCACAAAGTTTCCTGAGATCCTTCTGCAAGCAGCTTCCAAGATGGCCAGGACC
CTGCCCACTAAAGAATTCCTCTGGGCTGTCTTTCAGTCTGTTCGGAACAGCAGTGATAAGATCCCCAGC
TATGACCCTATGCCTGGTTGCCATGGAGTCGTGGCCCCCTCTTCTGATGACATCTTCAAGTTGGCCGAA
GCCAACGCCTGCTGGGCCCTGGAGGACCTGCGGTGCATGGAGGAAGACACATTCATCAGGACCGTGGAA
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TGGGACATGCCATCTTACTGGAGAGAACACCATATCGTCTCCCTGGGGCGCATTGCTCTGGCTCTTAAT
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TGGACCCCGGGACAGGCTGAATCCATTTTGCAAGGGTACCTGGATGATTCAGGATACAGTATCCAGGAC
CTGAAGAGCTTTCATTTGGTAGGACTTGGTGCAACCCTGTGTGCTATAAACATCACTGAAATCCCACTT
ATAAAGATCTCAGAATTCAGGGTGGTAGTGGCCAGAATTGGGACCCTGCTCTGCAGCACACATGTCTTA
GCCGAGTTTAAGAGGAAGGCTGAAGTTGTGTTTGGGGATCCCACTGAGTGGACCAGTTCTGTCTTGCAG
GAGCTTGGGACCATTGCAGCTGGATTAACTAAGGCAGAGCTCCGGATGCTTGACAAGGATTTGATGCCA
TATTTCCAGCCATCAGCAATAAAATGCCTTCCTGATGAGATATTCAAAGAGCTGTCCGCGGAGCAGATC
GCCTCCCTGGGTCCGGAGAACGCCGCGGCGGTGACCCACGCCCAGCGCCGGCGGCTCAGTCCACTGCAG
CTGCAGAGCCTCCAGCAGGCGCTAGATGGCGCCAAGACTCACTCCTGGCAGGACGCGCCCGCTAGCGCC
GGTCCCACTAGAACCTCATCCTCGCGTTCTCCCGCAGGAGCTCTCCAGTCGTGGGGTCTTTGGCTTGGT
TGTCCCCTGCTGGTTCTAATGGCCAAGCTCCTGTGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_144672
Insert Size:	3420 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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
RefSeq Size:	3624 bp
RefSeq ORF:	3420 bp
Locus ID:	146183
Cytogenetics:	16p12.2
MW:	126.9 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] Transcript Variant: This variant (1) encodes the longest isoform (1).