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Product datasheet for SC338155

OTOG (NM_001292063) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OTOG (NM_001292063) Human Untagged Clone
Tag:	Tag Free
Symbol:	OTOG
Synonyms:	DFNB18B; MLEMP; OTGN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001292063, the custom clone sequence may differ by one or more nucleotides

ATGGGAGTCCTGGCGTCTGCGCTCTGCTGGCTGCTTTGTGTCTGGCTGCCCTGGGGTGAGCAGGCAGCCG
AGTCCCTGCGGGTGCAGCGCCTCGCCGCAGCACCCGTTCTGTGGGGCAGTGCAGAGCCACAGCCAGAGCC
AGCCGGGCAACCCAGCAGCAGCCACCAGGAGGCGACCCTTGCCATGGGGGACAAGGCTACAGTCGTGGGA
GGCCAGCAGGCTGAAGCCCCAGACTCCGTGGCCATGTCTTCCTGGGAAAGGCGGCTCCATCGGGCCAAGT
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CGGGCGTGGGGGCAGCACCACGTGGAGACATTTGATGGGCTCTACTACTACCTCTCCGGAAAGGGCAGCT
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CACCGTGACATTGCAGAATGCCCCATGTGGCCTGAACCAAGATGGAGCCTGTGTCCAGTCAGTGTCAGTG
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GCCCGATTCTGCAAGTGCTGCCGTGAGGTGGGCCTGCAGCGGCGCTCTGTGCAGCTCTTCTGTGCCACCA
ATGCCACCTGGGTGCCCTATACAGTGCAGGAGCCCACCGACTGTGCCTGCCAGTGGTCCTGA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001292063
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).
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_001292063.1, NP_001278992.1
RefSeq Size:	8742 bp
RefSeq ORF:	8742 bp
Locus ID:	340990
Cytogenetics:	11p15.1
Gene Summary:	The protein encoded by this gene is a component of the acellular membranes of the inner ear. Disruption of the orthologous mouse gene shows that it plays a role in auditory and vestibular functions. It is involved in fibrillar network organization, the anchoring of otoconial membranes and cupulae to the neuroepithelia, and likely in sound stimulation resistance. Mutations in this gene cause autosomal recessive nonsyndromic deafness, type 18B. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2014] Transcript Variant: This variant (2) uses two alternate splice sites and includes an additional exon, which together result in an alternate in-frame segment in the 5' coding region, compared to variant 1. The encoded isoform (b) is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The exon combination of this transcript is inferred from the full-length mouse mRNA U96411.1, and is supported by partial human transcript alignments, RNA-seq data, and partial RT-PCR data from PMID:23122587. CCDS Note: This CCDS representation lacks full-length human transcript support. Its exon combination is therefore inferred, but it is supported by the full-length orthologous mouse transcript U96411.1, by partial human transcript alignments, and by data in PMID:23122587. ##RefSeq-Attributes-START## inferred exon combination :: based on alignments, homology ##RefSeq-Attributes-END##