

## Product datasheet for MC225112

### Otof (NM\_031875) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Otof (NM_031875) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Otof
Synonyms:	MGC183613
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225112 representing NM_031875 Red=Cloning site Blue=ORF Orange=Stop codon

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GCC**CGGATCGCC**

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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_031875
Insert Size:	5994 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).
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:	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
RefSeq:	<a href="#">NM_031875.2</a> , <a href="#">NP_114081.2</a>
RefSeq Size:	7125 bp
RefSeq ORF:	5994 bp
Locus ID:	83762
UniProt ID:	<a href="#">Q9ESF1</a>
Cytogenetics:	5 B1

**Gene Summary:**

Key calcium ion sensor involved in the Ca(2+)-triggered synaptic vesicle-plasma membrane fusion and in the control of neurotransmitter release at these output synapses. Interacts in a calcium-dependent manner to the presynaptic SNARE proteins at ribbon synapses of cochlear inner hair cells (IHCs) to trigger exocytosis of neurotransmitter. Also essential to synaptic exocytosis in immature outer hair cells (OHCs). May also play a role within the recycling of endosomes.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (2).