

## Product datasheet for **RN212829**

### Otop1 (NM\_181433) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Otop1 (NM_181433) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Otop1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN212829 representing NM\_181433  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCTGGGGACCGGGGCGCACTATCTTCTCCCGCAGCATCATCAGGCTCCCCGAGTGCCGCGCCGTGCGG  
 GGATCGCCGCATGCCCTCCGCCCCCGTCTCCCCTAGCCCGGGCGTCTCCACAAGCTTCCGGTCCCCGACG  
 CGGTGCCAGCGTCCCGCAGAAGCTGGCGGAGACTCTGAGCAGCCAGTATGGACTGAACGTGTTCTGTCGAT  
 GGGCTTCTTTCTGCTGGCTGGGCGGTGCACGCGACGGGTGTGGGCAAGAGCGACCTGTTGTGCGTAT  
 TAACCGCACTCATGCTGCTGCAGCTGCTCTGGATGCTGTGGTACGTGGTGCAGCTACATGCAGCGCCG  
 CCTCATCCGCCCAAGGACACGCACGCGGGTGCAGCTGGCTCCGCGGAAGCATCACATTGTTGCGATTC  
 ATCACCATCGTCTGGGGTGCCTGAAAGTCGCATACTTCATTGGATTCTCAGAGTCTTGCAGCTACAG  
 AGGGAGTTTTCCAGTACCCATGCAGTGCATACATTGTTGCAGGTCTATTTTCTCTGGGCCCACGCTAA  
 AGATATTATCATGTCTTTCAAAACTGGAAAGTTTGGGGTATCCATTAGTGTTCACAAACCTGCTG  
 CTGTGGGCCAACAGCGTCTGAATGAGTCAAACACCAGCTGAATGAACAACAAGAACCGGTGATCACTC  
 TGGGCTTCGGAACATCACCATAGTTTTGGATGACCACACACCACAGTGAACCTGCACACCGCTGCCCT  
 CTGCTCTGCCCTCTCCACGGGATTTACTATCTGTACCCCTTCAACATTGAGTACCAGATCCTGGCCTCG  
 ACCATGCTCTATGTGCTGTGGAAGAACATTGGGCGCAGGGTGGACAGCTCCCGGCACCAGAAGATGCAGT  
 GCAGATTGCAGCGGGTCTGGTGGGCTCAGTGTGGGCTGACAGTGTGGTGCACCATCGCGGTGGT  
 TGTGGTGTACATGATCCATATCGGGCGCTCAAGTCCAAGAGTGAAGTGGCTCTTATCATGTTCTATTTG  
 TATCGCATCACGGTGTGCTGCTCATGGGGCTGCGGGGCTGGTAGGAAGCTGGATTTACAGGGTGGATG  
 AGAAGTCTGGATGAGTCAAAGAACCAGCCCGCAAGCTGGATGCTGACCTCTTGGTGGCCACTGCCTC  
 GGGTTCCTGGCTCCTCTCCTGGGGTCCATTTTGGCCATCGCCTGCGCTGAGACCCGCCACCCTACACC  
 TGGTACAACCTCCCTACTCTGTCTGGTATCGTGGAGAAGTACGTCCAGAACATTTTCATCATTGAGT  
 CGGTGCACCTCGAGCCTGAGGGGTCCCGAGGATGTGCGCACTCTGCGTGTGGTACCCTCTGCAGTGG  
 GGAGGCTGCTGCACTGGCTGCATCGAGTCTCGGGAGCCAGGGGACGGCCAGGATGGGTACCTGCTGTC  
 AATGGGAATCTGCATCTGCAGCAGAGGTGTGAGAAAGAGGACCAGGAGGCTGACTGGGAAGGAGCTACGG  
 GGACAACCCGATGTCTGGACTTCCTTCAGGGAGGCATGAAGAGGAGGCTGCTCAGAAACATCACAGCCTT  
 TCTGTTCTTTGCAACATCTCGCTTTGGATTCCCCTGCCTTTGGCTGCCGTCCCGAGTATGACAACGGA  
 CTGGAGGAAATTGCTTTGGCTTTGAACCTGGATAATTGTGGTCAACCTGGCCATGCCCTCTCCATTT  
 TCTACAGGATGCACGCAGCTGCCGCCCTTTGAGGTCTATTGTAATCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_181433
- Insert Size:** 1803 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:**

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\\_181433.1](#), [NP\\_852098.1](#)

**RefSeq Size:** 1827 bp

**RefSeq ORF:** 1803 bp

**Locus ID:** 305427

**UniProt ID:** [Q7M734](#)

**Cytogenetics:** 14q21

**Gene Summary:** may play a role in the biosynthesis of otoconia, which are inner ear biominerals required for perception of gravity and linear acceleration [RGD, Feb 2006]