

Product datasheet for **MG216988**

Otop2 (NM_172801) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Otop2
Synonyms:	4732464P15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >MG216988 representing NM_172801
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCGGAGGAAC TGGTCCCGCATCCCAATGAGAGCCTGCCGGGGCTCGGGCCAGCCCCGTGAGGTGT
 GGAAAAAGGGCGCCGCTGCTGTCCGGTGTGTTGGCTGTCAACGTGCTGCTGCTCGCTGCACGCTCAT
 CAGCGGCGGTGCCTTCAACAAGGTGGCGGTGTATGACACGGACGTGTTCCGCTCTGCTCACCACCATGATG
 CTGCTGGCCGCGCATGGATAGTCTTACCTCCTCCGCACCGCTCGTGTCCAGACGCGGTGCCTTACC
 GGGATGCTCATGCTGGTCCCATCTGGCTCCGAGGTGGGCTGGTGTGTTTGGAACTGCACCCTTGTGCT
 GGATGCTTCAAGACTGGCTACTATTCCAGTTTCTTTGAGTGCCAGTCCGCCATCAAGATCCTGCACCCC
 ATCATCCAAGCCGTGTTTGTGCTTGTCCAGACTTACTTTCTCTGGATCTCCGCTAAAGACTGTATCCATA
 CCCACCTGGACCTGACCCGGTGTGGGCTCATGTTACCCCTCGCCACCACTCGCCATCTGGATGGCAGC
 CGTAGTGGATGAGTCCGTGCACCAGGCCACTCCTACAGTGGTCCCATGGCAACACCAGCCACACCCGC
 CTCAACCCCTGACTCAAAGCGTGCAGGAGGTGCAGCTGAAGAAGACCCGTGCCTCTGCAGCACAGCCATCT
 GTCAGATCTCCAGCAAGGCTATTTCTACCTGTATCCCTTCAACATCGAGTACAGCCTCTTTGCTCCAC
 CATGCTGTATGTGATGTGGAAGATGTGGGAAGGCTGCTCGCTCCACCCACGGCCACGGCCACACACCG
 TCCAGGTCAGCCTGTTCCGGGAGACCTTCTTTGCCGGCCAGTCTGGGCTGCTCCTCTTTGTGGTGG
 GGTTGGCTGTCTTCACTCTTATGAGGTCAGGTGAGTGGAGAGAGAGGCCACACCCGACAGGCCCTGGT
 CATCTACTACAGCTTAAACATTGTCTGTCTGGGCTCATGACTCTGGTACGCTGAGTGGTTCAGTCATC
 TATCGTTTTGACCGTGGGCCATGGACCATATAAGAACCCGACACGGACCCCTGGATGTGGCCCTGCTAA
 TGGGCGCCGCCCTGGCCAATACGCTATCTCTACTACTCTATCGTGGCTGTTGGTGGTGGGCTCTCCAG
 AGACCTGCAGGGGGCGCTCAACCTGTCCCACGCTCTACTCATGATCGCTCAGCACACCTTCCAGAATGTC
 TTCATCATTGAGAGCCTCCATCGGGGACCTCCTGGGCTGAGCCTCGTAAATGCCCCCAAGGAGCCCT
 GCCAAGGCATCACCTTTGCTAACCTGGATGCTATCCGCACCTTGCCTTCTGTCCACCCACCCCAAGGCT
 GGTCAATCCCAACCTAGAAAGTCTCAGGAAGCAGTGGCTATCATCTCGGCCCCAGGTGCCACTGGCGA
 CGTCGGTGCCTGAAAGACATCTCTGTGTTTCTCCTGCTCTGTAACGCTCATCCTGTGGATCATGCTGCT
 TTGGGCTCGCCGCACTTCAAGCAATACCGTGGAGGTGGACTTTTACGGTTACTCCCTCTGGGCGCCAT
 CGTCAACATCTGCCTACCTTTGGCATCTTCTACCGAATGCACGCTGTCTCCAGTCTACTGGAGTCTAT
 GACTGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216988 representing NM_172801
 Red=Cloning site Green=Tags(s)

MSEELVPHNESLPGPRASPREVWKKGRLLSVLLAVNVL LACTLISGGAFNKVAVYD TDV FALLTMM
 LLAALWIVFYLLRTARCPDAVYRDAHAGPIWLRGGLVLFGICTLVMDVFKTGYSSFFECQSAIKILHP
 IIQAVFVIVQTYFLWISAKDCIHTHLDLTRCGLMFTLATNLAIWMAAVVDES VHQHSYSGSHGNTSHTR
 LNPDSKRAGGAAEEDPCLCSTAI CQIFQQGYFYLYPFNIEYSLFASTMLYVMWKNVGRLLASTHGHGHTP
 SRVSLFRETFAGPV LGLLLFVVLAVFILYEYVQVSGERGHTRQALVIYYSFNIVCLGLMTLVSLSGSVI
 YRFDRRAMDHHKNPTRTLDVALLMGAALGQYAI SYYSIVAVVVGSPRDLQ GALNL SHALLMIAQHTFQNV
 FIIESLHRGPPGAEPREMPKPCQGITFANLDAIRTL PSCPPTPRLVIPNLESPQEAVAII SAPRCHWR
 RRCLKDISLFLLLCNVILWIMPAFGARPHFSNTVEVDFYGYSLWAAIVNICLPFGIF YRMHAVSSLLEVY
 VLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_172801

ORF Size: 1689 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

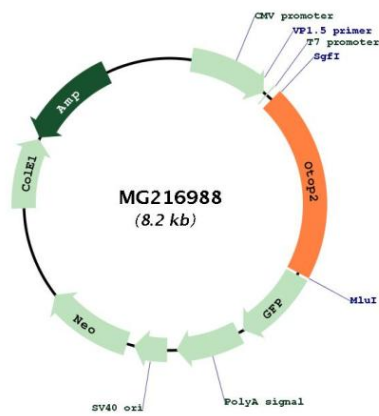
RefSeq: [NM_172801.2](#), [NP_766389.2](#)

RefSeq Size: 2350 bp

RefSeq ORF: 1692 bp
 Locus ID: 237987
 UniProt ID: [Q80SX5](#)
 Cytogenetics: 11 E2
 Gene Summary:

Proton-selective channel that specifically transports protons into cells. Proton-selective channel activity is probably required in cell types that use changes in intracellular pH for cell signaling or to regulate biochemical or developmental processes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216988