

Product datasheet for **RC215169**

OTOP3 (NM_178233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OTOP3 (NM_178233) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OTOP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC215169 representing NM_178233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCCGGAGCCCGAGCGCGGCTGCGCAGTCCCCTGGGGAGGGCGTCGCGGCATCGGTCTCAC
 CTGGACGGACGATCCGCTCAGCGCCCGCAGTCCGTGAAGCACAGGAGACTGAAGCAGCCCGGAGAAGGA
 GAACCGAGTGGATGTGGGGCCGAGGAGAGAGCGGCCGCCACCCGGCCCCGGCAGAAGTCTGGCTGGT
 AGGCATTTCTCTGCTGCTGCGCGGGACCGGCAGGCCAGAAGGCTGGACAACCTTTCTCGGGCTCC
 TGGCCCTGAATGTGGTGTCTGGTGGCGCTTTCATCTGCAGCATGATCTTCAACAAGGTGGCCGTAC
 TCTGGGTGACGTGGATCCTGCTGGCCACGCTGAAGTCTCTCCCTGCTTTGGCTTCTACTATGTG
 GCAAGCACCCCGACCACACGCGTGTCTACCAAGATCCACACGCGGGGCCCTCTGGTGGCGG
 GTTCCCTAGTGTCTTTCGGCAGTGCACCTTTCCTCAACATCTCCGAGTGGGCTACGATGTGAGCCA
 CATCCGCTGCAAGTCACAGCTGGACCTTGTCTTCTGTGATCGAGATGGTCTTTCATCGCGTCCAGACC
 TGGGTGCTCTGAAACACTGCAAAGACTGTGTTGGGTCCAGACCAACTCACTAGGTGTGCCTGATGC
 TGACCCTGGCCACAACTGCTGCTGTGGTCTGGCCGTTACCAATGACTCCATGCACCGAGAGATCGA
 AGCTGAGCTTGGCATCCTCATGGAAAAATCCACAGGCAATGAGACCAACACCTGTCTGTGCCTCAATGCC
 ACCGCGTGTGAAGCTTCCGGAGAGGCTTCTGATGCTTACCCCTTTCAGCACTGAGTACTGCCTCATCT
 GCTGTGCTGTGCTGTTTGTGATGTGGAAGAAGCTGGGCCGCCACGTGGCACCCACATGGGTGCCACCC
 TGCCACCGCACCTTCCACCTGCACGGGCCATCTTCGGCCGCTGTGGCCTGCTGGTGTGCTGGCA
 GGTGTGCGCTTTTGTGCTCTTCAAATCGAGGCCAGTGGCCCTGCCATTGCTTGCAGTACTTACCC
 TCTACTATGCTTCTATGTGGCTGTGCTGCCACCATGAGTCTGGCGTGCCTGGCGGGCACAGCCATACA
 CGGGCTGGAGGAGAGAGCTGGACACGGTCAAGAACCCTACCCGACGCTGGATGTGGTGTGCTAATG
 GGTGCTGCACTGGCCAGATGGGCATCGCTATTTCTCCATCGTGGCATTGTGGCAAGCGCCCGCATG
 AGCTGCTCAACCGCTCATCCTGGCCTACTCGCTGCTGCTCATCTGCAGCACATCGCTCAGAACCTCTT
 CATCATCGAGGGCTGCACCGCGCCCACTCTGGGAGACAGTTCCCGAGGGCCTGGCAGGAAAGCAGGAG
 GCTGAGCTCCCCGAGAGGCTCCTTGTGGAGCTGGGCCAGGGCCTGCAGCGGGCCTACTGGCCTACA
 TCCACTCTACAGCCACCTCAACTGGAAGCGGAGGGCACTCAAGGAGATCTACTTCTCATCTCTG
 CAATATCACACTGTGGATGATGCCTGCATTTGGCATAACCCGGAGTTTGAACGGGCTAGAAAAGGAT
 TTCTACGGCTACCAGATATGTTTCGCCATCGTCAACTTCGGCCTGCCTCTGGGGTCTTCTACCGCATGC
 ACTCTGTGGGAGGCTGGTGGAGTCTACTGGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215169 representing NM_178233
 Red=Cloning site Green=Tags(s)

MGRGAAAAAQRWGRASRASVSPGRTIRSAPAVGEAQETEAAPKENRVDVGAEEAAAATRPRQKSWLV
 RHFSLLLRRDRQAQKAGQLFSGLLALNVVFLGGAFICSMIFNKVAVTLGDWILLATLKVLSLLWLLYYV
 ASTTRRHAVLYQDPHAGPLWVRGSLVLFSGCTFCLNIFRVGYDVSHIRCKSQLDLVFSVIEMVFIGVQT
 WVWLKHKDCVVRVQTNFTRCGLMLTLATNLLLWVLAVTNDSMHREIEAELGILMEKSTGNETNTCLCLNA
 TACEAFRRGFLMLYPFSTEYCLICCAVLFVMWKNVGRHVAPHMGAHPATAPFHLHGAIFGPLLGLLVLLA
 GVCVFLVFQIEASGPAIACQYFTLYYAFYVAVLPTMSLAFLAGTAIHGLEERELDTVKNPTRSLDVLLM
 GAALGQMGIAFYFIVAIIVAKRPHLLNRLILAYSLLLILQHIAQNLFIIEGLHRRPLWETVPEGLAGKQE
 AEPFRRGSLLELQGLQRASLAYIHSYSHLNWKRRLKEISLFLILCNITLWMMPAFGIHPEFENGLEKD
 FYGYQIWFIVNFGLPLGVFYMHSVGGGLVEVYLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8013_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178233

ORF Size: 1788 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.

RefSeq: [NM_178233.2](#), [NP_839947.1](#)

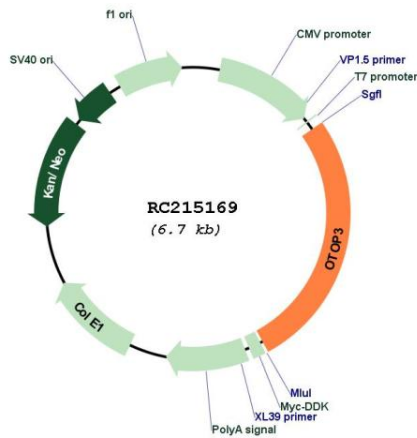
RefSeq Size: 1791 bp

RefSeq ORF: 1791 bp

Locus ID: 347741

UniProt ID: [Q7RTS5](#)
Cytogenetics: 17q25.1
Protein Families: Transmembrane
MW: 66.1 kDa
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 RC215169