

Product datasheet for **RG238969**

OTOP3 (NM_001272005) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OTOP3 (NM_001272005) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OTOP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238969 representing NM_001272005.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCTCTCCCGCCTCAGCCCCTGCTGAGGCTACACCCATGCCTTCTTCAGAAGCACAGGAGACTGAA
GCAGCCCCGGAGAAGGAGAACCAGTGGATGTGGGGCCGAGGAGAGAGCGGCCGCCACCCGGCCCCGG
CAGAAAGTCTGGCTGGTGAAGCATTCTCTCTGCTGCTGCGGCGGGACCGCAGGCCAGAAAGGCTGGA
CAACTCTTCTCGGGGCTCCTGGCCCTGAATGTGGTGTTCCTGGGTGGCGCCTTACTCTGCAGCATGATC
TTCAACAAGGTGGCCGCTCACTCTGGGTGACGTGTGGATCCTGCTGGCCACGCTGAAGTCTCTCCCTG
CTTTGGCTTCTACTATGTGGCAAGCACCACCCGCCACACACGCCGTGCTCTACCAAGATCCCCAC
GCGGGGCCCTCTGGGTGCGGGTTCCTAGTGTCTTTCGGCAGCTGCACCTTCTGCCTCAACATCTTC
CGAGTGGGCTACGATGTGAGCCACATCCGCTGCAAGTACAGCTGGACCTGTCTTCTGTGCATCGAG
ATGGTCTTCATCGGCGTCCAGACCTGGGTGCTCTGAAACACTGCAAAGACTGTGTTCCGGTCCAGACC
AACTTCACTAGGTGTGGCCTGATGCTGACCTGGCCACAACCTGCTGCTGTGGGTCTGGCCGTTACC
AATGACTCCATGCACCGAGAGATCGAAGCTGAGCTTGGCATCCTCATGGAAAAATCCACAGGCAATGAG
ACCAACACCTGTCTGTGCCTCAATGCCACCCGCTGTGAAGCTTCCGGAGAGGCTTCTGATGCTCTAC
CCCTTCAGCACTGAGTACTGCCTCATCTGCTGTGCTGTGCTGTTGTGATGTGGAAGAAGCTGGGCCG
CACGTGGCACCACATGGGTGCCACCCTGCCACCGCACCTTCCACCTGCACGGGGCCATCTTCGGG
CCGCTGCTGGGCTGCTGGTGTGCTGGCAGGTGTGTGCGTCTTGTGCTTCCAAATCGAGGCCAGT
GGCCCTGCCATTGCTTCCAGTACTTACCCTCTACTATGCCTTCTATGTGGCTGTGCTGCCACCATG
AGTCTGGCGTGCCTGGCGGCACAGCCATACACGGGCTGGAGGAGAGAGAGCTGGACACGGTCAAGAAC
CTACCCGACGCTGGATGTGGTGTGCTAATGGGTGCTGCACTGGCCAGATGGGCATCGCCTATTTTC
TCCATCGTGGCCATTGTGGCCAAGCGCCGCATGAGCTGCTCAACCGCCTCATCCTGGCCTACTCGCTG
CTGCTCATCCTGCAGCACATCGCTCAGAACCTTTCATCATCGAGGGCCTGCACCGGCCGCCACTCTGG
GAGACAGTTCGGAGGGCCTGGCAGAAAAGCAGGAGGCTGAGCCTCCCCGAGAGGCTCCTGTGGAG
CTGGGCCAGGGCCTGCAGCGGCCTCACTGGCCTACATCCACTCTACAGCCACCTCAACTGGAAGCGG
AGGGCACTCAAGGAGATCTCACTTCTCATCCTCTGCAATATCACACTGTGGATGATGCTGCATTT
GGCATAACCCGGAGTTTGAAGACGGGCTAGAAAAGGATTTCTACGGCTACCAGATATGGTTCGCCATC
GTCAACTTCGGCCTGCCTCTGGGGTCTTCTACCGCATGCACTCTGTGGGAGCCTGGTGGAGGTCTAC
CTGGGGCC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG238969
 Blue=ORF Red=Cloning site Green=Tag(s)

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MPLPASAPAEATPMPSSAEQETEAAPEKENRVDVGAEEAAAATRPQKSWLVRHFLLLLRRDRQAQKAG
QLFSGLLALNVVFLGGAFICSMIFNKVAVTLGDVWILLATLKVLSLLWLLYYVASTRRPHAVLYQDPH
AGPLWVRGSLVLFSGCTFCLNIFRVGYDVSHIRCKSQLDLVFSVIEMVFIGVQTWVLWKHCKDCVRVQT
NFTRCGLMLTLATNLLLWLVAVTNDMSHREIEAELGILMEKSTGNETNTCLCLNATAACEAFRRGFLMLY
PFSTEYCLICCAVLFVMWKNVGRHVAPHMGAHPATAPFHLHGAIFGPLLGLLVLLAGVCFVFLFQIEAS
GPAIACQYFTLYAFYVAVLPTMSLAAGTAAIHGLEERELDTVKNPTRSLDVVLLMGAALGQMGIAIF
SIVAIVAKRPELLNRLILAYSLLLILQHIAQNLFIEGLHRRPLWETVPEGLAGKQEAEPFRGSLLE
LGQGLQRASLAYIHSYSHLNWKRALKEISLFLILCNITLWMMPAFGIHPEFENGLEKDFYGYQIWFAI
VNFGLPLGVFYMHSVGGLEEVYLG
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TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDVSHMHFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

Sgfl-MluI

ORF Size:	1734 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).
RefSeq:	NM_001272005.2
RefSeq Size:	2433 bp
RefSeq ORF:	1737 bp
Locus ID:	347741
UniProt ID:	Q7RTS5
Cytogenetics:	17q25.1
Protein Families:	Transmembrane
MW:	64.9 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]