

Product datasheet for **RG209797**

TMCO3 (NM_017905) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMCO3 (NM_017905) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMCO3
Synonyms:	C13orf11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG209797 representing NM_017905
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTGTGGGAAGAAGCTTCTTCTGGGTGCTGTTCCCGTCTTCCCTGGGCGGTGCAGGCTGTGG
 AGCACGAGGAGGTGGCGCAGCGTGATCAAATGCACCGCGGGCGAGGGGTGGCTGCCATGCAGAGCCG
 GCAGTGGTCCGGGACAGCTGCAGGAAGCTCTCAGGGCTTCTCCGCCAGAAGAATGCAGTTCTGAACAAA
 CTGAAAATGCAATTGGAGCAGTGGAGAAAGACGTGGCCTGTCGGATGAAGAGAAAATGTTTCAGGTGC
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 GCAGAGAGCCCTGCAGGGGATTACAAAGATGTCGTGAACATGAAGGAGAGCAGCCGGCAGCGCCTGGAG
 GCCCTGAGAGAGGCTGCAATAAAGGAAGAAACAGAATATATGGAACCTTCTGGCAGCAGAAAAACATCAAG
 TTGAAGCCCTTAAAAATATGCAACATCAAACCAAAGTTTATCCATGCTTGACGAGATTCTGAAGATGT
 AAGAAAGCAGCGGATCGTCTGGAGGAAGAGATAGAGGAACATGCTTTTGACGACAATAAATCAGTCAAG
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 GAGAAGTGGAGGATGACTTGGGTCTTAGCATGCTGATTGACTCCCAGAACAACCAGTATATTTTGACCAA
 GCCCAGAGATTCAACATCCCACGTGCAGATCACCACTTATAAAGGACATTGTTACCATAGGAATGCTG
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 GTTCCTCATGGCAGTGTCTCGGGTGACAAAGAAGGCGACATTGACTACAGCACCGTGTCTCTCGGCATG
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 ATGGAAGCAAGGGGAACAAGAAATCTGATCTTGGGAATATCTGCCTTATCTTCTTAATGTTAACGG
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 CCCCGTGGTACCAGAGGATCGCCACCTCCATCGAACCCATCCGCGACTTCTGGCCATCGTTTTCTTC
 GCCTCCATAGGGTCCACGTGTTCCACAGTTTGTGGCGTACGAGCTCACGGTGTGGTGTCTCACCT
 TGTCAAGTGGTGGTATGAAGTTTCTCCTGGCGGCTGGTCTGTCTCATTCTGCCGAGGAGCAGCCA
 GTACATCAAGTGGATCGTCTCTCGGGGCTTGCCAGGTGAGCGAGTTTTCTTTGCTCTGGGGAGCCGG
 GCGCGAAGAGCGGGCGTCATCTCTCGGGAGGTGTACCTCCTTATACTGAGTGTGACCACGCTCAGCCTCT
 TGCTCGCCCCGGTGTGTGGAGAGCTGCAATCACGAGGTGTGTGCCAGACCGGAGAGACGGTCCAGCCT
 C

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209797 representing NM_017905
Red=Cloning site Green=Tags(s)

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MKVLGRSFFWVLPVLPWAVQAVEHEEVAQRVIKLRGRGVAAMQSRQWVRDSCRKLSGLLRQKNAVLNK
LKTAIGAVEKDVGLSDEEKLQVHTFEIFQKELNESENSVFQAVYGLQRALQGDYKDVVNMKESSRQRLE
ALREAAIKEETEYMELLAAEKHQVEALKNMQHQNSLSMLDEILEDVRKAADRLEEEIEEHAFDDNKSVK
GVNFEAVLRVEEEEANSKQNTKREVEDDLGLSMLIDSQNNQYILTKPRDSTIPRADHHFIKDIVTIGML
SLPCGWLCTAIGLPTMFGYIICGVLLGPSGLNSIKSIVQVETLGEFGVFFTLFLVGLFESPEKLRKVWKI
SLQGPCYMTLLMIAFGLLWGHLLRHKPTQSVFISTCLSLSSTPLVSRFLMGSARGDKEGDIIDYSTVLLGM
LVTQDVQLGLFMAVPTLIQAGASASSSIVVEVLRILVLIQILFSLAAVFLCLVIKYLIGPYRKLH
MESKGNKEILILGISAFIFLMLVTPELLDVSMELGCFLAGALVSSQGPVVTEEIATSIPIRDFLAIVFF
ASIGLHVFPFVAYELTVLVFLTVSVVMKFLAALVLSLILPRSSQYIKWIVSAGLAQVSEFSVFLGSR
ARRAGVISREYVLLILSVTTLISLLAPVLWRAAITRCVPRPERRSSL
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017905

ORF Size: 2031 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_017905.6](#)

RefSeq Size: 3102 bp

RefSeq ORF: 2034 bp

Locus ID: 55002

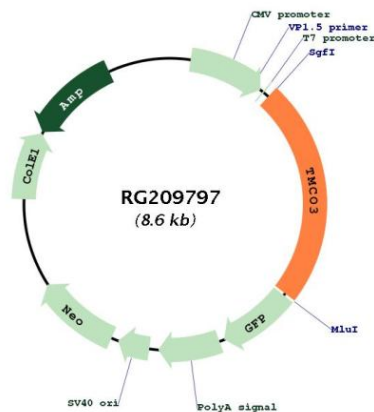
UniProt ID: [Q6UWJ1](#)

Cytogenetics: 13q34

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the monovalent cation:proton antiporter 2 (CPA2) family of transporter proteins. Members of this family typically couple the export of monovalent cations, such as potassium or sodium, to the import of protons across cellular membranes. Mutations in this gene have been identified in patients with a rare inherited vision defect, cornea guttata with anterior polar cataract. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG209797