

Product datasheet for **RC209797**

TMCO3 (NM_017905) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMCO3 (NM_017905) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMCO3
Synonyms:	C13orf11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209797 representing NM_017905
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTGTGGGAAGAAGCTTCTTCTGGGTGCTGTTCCCGTCTTCCCTGGGCGGTGCAGGCTGTGG
 AGCACGAGGAGGTGGCGCAGCGTGATCAAACGCACCGCGGGCGAGGGGTGGCTGCCATGCAGAGCCG
 GCAGTGGTCCGGGACAGCTGCAGGAAGCTCTCAGGGCTTCTCCGCCAGAAGAATGCAGTTCTGAACAAA
 CTGAAAACGCAATTGGAGCAGTGGAGAAAACAGCTGGCCTGTCGGATGAAGAGAAAAGTGTTCAGGTGC
 ACACGTTTGAATTTCCAGAAAGAGCTGAATGAAAGTAAAAATCCGTTTTCCAAGCTGTCTACGGACT
 GCAGAGAGCCCTGCAGGGGATTACAAAGATGTCGTGAACATGAAGGAGAGCAGCCGCCAGCGCCTGGAG
 GCCCTGAGAGAGGCTGCAATAAAGGAAGAAACAGAATATATGGAACCTTCTGGCAGCAGAAAAACATCAAG
 TTGAAGCCCTTAAAAATATGCAACATCAAACCAAAGTTATCCATGCTTGACGAGATTCTGAAGATGT
 AAGAAAGCAGCGGATCGTCTGGAGGAAGAGATAGAGGAACATGCTTTTGACGACAATAAATCAGTCAAG
 GGGGTCAATTTGAGGCAGTTCTGAGGGTGGAGGAAGAAGAGGCCAATCTAAGCAAAAATAACAAAAC
 GAGAAGTGGAGGATGACTTGGGTCTTAGCATGCTGATTGACTCCCAGAACAACAGTATATTTTGACCAA
 GCCCAGAGATTCAACATCCCACGTGCAGATCACCACTTATAAAGGACATTGTTACCATAGGAATGCTG
 TCCTTGCCTTGTGGCTGGCTATGTACAGCCATAGGATTGCCTACAATGTTTGGTTATATTATTTGTGGT
 TACTTCTGGGACCTTCAGGACTAAATAGTATTAAGTCTATTGTGCAAGTGGAGACATTAGGAGAATTTGG
 GGTGTTTTTACTCTTTTCTTGTGGCTTAGAATTTCTCCAGAAAAGCTAAGAAAGGTGTGGAAGATT
 TCCTTACAAGGGCCGTGTTACATGACACTGTTAATGATTGCATTTGGCTTGCTGTGGGGGCATCTTTGC
 GGATCAAACCCACGCAGAGCGTCTTCAATTTCCACGTGTCTGCTTGTCAAGCACACCCCTCGTCCAG
 GTTCCTCATGGCAGTGCTCGGGGTGACAAAGAAGGCGACATTGACTACAGCACCGTGCTCCTCGGCATG
 CTGGTGCAGCAGGACGTGCAGCTCGGGCTTTCATGGCCGTCATGCCGACTCTCATAACAGCGGGCGCCA
 GTGCATCTTAGCATTGTCGTGGAAGTCTCCGAATCCTGGTTTTGATTGGTCAGATTCTTTTTCACT
 AGCGGGGTTTTTCTTTTATGTCTTGTATAAAGAAGTATCTCATTGGACCCTATTATCGGAAGTGCAC
 ATGGAAGCAAGGGGAACAAAGAAATCCTGATCTTGGGAATATCTGCCTTATCTTCTTAATGTTAACGG
 TCACGGAGCTGCTGGACGTCTCCATGGAGCTGGGCTGTTTCTGGCTGGAGCGCTCGTCTCCTCAGGG
 CCCCGTGGTACCAGGAGATCGCCACCTCCATCGAACCCATCCGCGACTTCTGGCCATCGTTTTCTTC
 GCCTCCATAGGGTCCACGTGTTCCACAGTTTGTGGCGTACGAGCTCACGGTGTGGTGTCTCACCT
 TGTCAAGTGGTGGTATGAAGTTTCTCCTGGCGGCTGGTCTGTCTCATTCTGCCGAGGAGCAGCCA
 GTACATCAAGTGGATCGTCTCTCGGGGCTTGCCAGGTGAGCGAGTTTTCTTTGCTCTGGGGAGCCGG
 GCGCAAGAGCGGGCGTCATCTCTCGGGAGGTGTACCTCCTTATACTGAGTGTGACCACGCTCAGCCTCT
 TGCTCGCCCCGGTGTGTGGAGAGCTGCAATCACGAGGTGTGTGCCAGACCGGAGAGACGGTCCAGCCT
 C

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209797 representing NM_017905
Red=Cloning site Green=Tags(s)

MKVLGRSFFWVLPVLPWAVQAVEHEEVAQRVIKLRGRGVAAMQSRQWVRDSCRKLSGLLRQKNAVLNK
 LKTAIGAVEKDVGLSDEEKLQVHTFEIFQKELNESENSVFQAVYGLQRALQGDYKDVVNMKESSRQRL
 ALREAAIKEETEYMELLAAEKHQVEALKNMQHQNSLSMLDEILEDVRKAADRLEEEIEEHAFDDNKSVK
 GVNFEAVLRVEEEEANSKQNTKREVEDDLGLSMLIDSQNNQYILTKPRDSTIPRADHHFIKDIVTIGML
 SLPCGWLCTAIGLPTMFGYIICGVLLGPSGLNSIKSIVQVETLGEFGVFFTLFLVGLFESPEKLRKVWKI
 SLQGPCYMTLLMIAFGLLWGHLLRIKPTQSVFISTCLSLSSTPLVSRFLMGSARGDKEGIDYSTVLLGM
 LVTQDVLGLFMAVPTLIQAGASASSSIVVEVLRILVLIQILFSLAAVFLCLVIKKYLIGPYRKLH
 MESKGNKEILILGISAFIFLMLVTPELLDVSMELGCFLAGALVSSQGPVVTEEIATSIPIRDFLAIVFF
 ASIGLHVFPFVAYELTVLVFLTVSVVMKFLAALVLSLILPRSSQYIKWIVSAGLAQVSEFSVFLGSR
 ARRAGVISREYVLLILSVTTLISLLAPVLWRAAITRCVPRPERRSSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8114_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017905

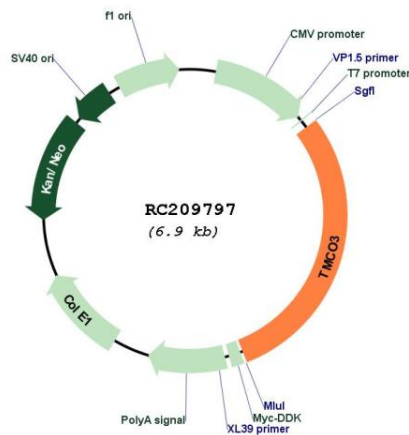
ORF Size: 2031 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_017905.6</u>
RefSeq Size:	3102 bp
RefSeq ORF:	2034 bp
Locus ID:	55002
UniProt ID:	<u>Q6UWJ1</u>
Cytogenetics:	13q34
Protein Families:	Druggable Genome, Transmembrane
MW:	75.6 kDa
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 RC209797