

Product datasheet for **RC226176**

TMC6 (NM_001127198) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TMC6
Synonyms:	EV1; EVER1; EVIN1; LAK-4P; Inc; TNRC6C-AS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC226176 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGCCACGCACTGGCCCTTCATCCTCGATGTCCCTGAGACCCAGGGGACAGGGGACAGGGCCCGCCAGCC
CCTATGATGAAAGCGAAGTGCACGACTCCTTCAGCAGCTCATCCAGGAGCAGAGCCAGTGCACGGCCCC
GGAGGGGCTGGAGCTGCAGCAGAGAGAGCGGGAGGTGACAGGAAGTAGCCAGCAGACACTCTGCGGCC
GAGGGCACCCAGAGACAGGCCACA CTCCGATCCTGGCCAGCATGCCACGCCGACCAATTGGCCGAGCC
GAGGTGCCATCATCTCCAGTACTACAACCGCACGGTGCGAGCTTCGGTGACAGGAGCAGCCGGCCCTGCT
CGGGAACCTTTGTCGCTCCGCTGGCCAGCCTCCGCTGTACGACCTGGAGCTGGACCCACAGGCCCTG
GAGGAGGAGGAGAAGCAGACGCTCTGCTGAAGAGATTCCAGAGCTGGCAGTGGCACAGCGGACCA
TACTTCGCGGGATGCCCTTAAGCTTGCTGGAACACGACGCTCGGAGCAAGAGCAGGACCCGAGGGG
GAAGTGAGAGGGGCAGCCGGGCAGCGCGGGGTGCTGCTGCTGTGGCCGCTCAGATATGCCTGCGTG
CTGGCCTTGACAGACCTGGGCTGGCGCTGCTCTCCGCCCTGCAGGCCCTGATGCCGTGGCGCTACGCC
TGAAGCGCATCGGGGGCAGTTGGCTCCAGCGTGCTCTCCTACTTCTCTTCTCAAGACCCTGCTGGC
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CTGCCGGGCCCTGCCCGCTGTGCACAGGCTGAGGCTCCTCACAGCGCGGGTGTCTCACCCACACCG
TCATGTA CTACGGCCACTACAGTAACGCCACGCTGAACCAGCCGTGTGGCAGCCCCCTGGATGGCAGCCA
GTGCACACCCAGGGTGGGTGGCCTGCCCTACAACATGCCCTGGCCTACCTCTCCACTGTGGCGTGAGC
TTCTTTATCAGCTGCATCACCCTGGTGATACGCTAGCTCCTTTTGGGAGAGCTACCGGTGGGCA
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CCGCCCTCAGCAGGACAATATTCGACCCGGCTGAAGGAGCTGCTGGCCGAGTGGCAGCTGCGGCACAGC
CCCAGGAGCGTGTGCGGGAGGCTGCGGCAGGCGGCTGTGCTGGGCTTGTGTGGCTGCTGTGCTGGGA
CCGCGCTGGGCTGCGCCGTGGCCGTCCAGCTTCTCGGAGTTCATGATCCAGAGTCCAGAGGCTGCTGG
CCAGGAGCTGTGCTGCTGGTCTGCCCTGGTGGTGGCCTCCTAACCTGGGGGCCCTACCTGTGC
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TCATCCTCAAGCTGGCCATCTTGGGACACTGTGCTACCACTGGCTGGGCCGAGGGTGGCGTCTTGCA
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AGCCTTCTGGCCAACTGCCAGGCGCGCGCCGCCCTGGCTGGCCTCACATGAGCACCCTTCTCTCA
CGTGCTCTGCTTCCCCGCTTCTGGGCGCGCTGTCTTCTCTGCTACGCCGTCTGGCAGGTGAAGCC
CTCGAGCACTGCGGCCCTTCCGACCTTGACACCATGTACAGGCCGCGCAGGTTGGGTGCGCCAC
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TTGTCTTCTGGTGTGAGCCCTGCTGCTGGCCGTGATCTACCTCAACATCCAGGTGGTGGGGGCCAGCG
CAAGGTCACTGCTGCTGACAAGGAGCAGATCAGCAATGAGGTTGAGGACAAAATCTTCTTAATCAACAAG
CTTCACTCCATCTACGAGAGGAAGGAGGAGGAGAGGAGCAGGTTGGGACAACCGAGGAGCTGCGG
CACCCTCTGCCCTGCTCAGAGATGAACAGGATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226176 protein sequence
 Red=Cloning site Green=Tags(s)

MAQPLAFILDVPETPGDQGQGPSYDESEVHDSFQQLIQEQSQCTAQEGLELQQREREVTGSSQQTWLP
 EGTQSTATLRILASMPSTIGRSRGAIISQYYNRTVQLRCRSSRPLLGNFVRSWPSLRLYDLELDPAL
 EEEKQSLLVKEFQSLAVAQRDHMLRGMPSLAEKSLREKSRTPRGKWRGQPGSGGVCSCGRLRYACV
 LALHSLGLALLSALQALMPWRYALKRIGGQFGSSVLSYFLFKTLTLLAFNALLLLLVAFIMGPQVAFPPA
 LPGAAPVCTGLELLTGAGCFTHVMYYGHYSNATLNQPCGSPLDGSQCTPRVGGLPYNMPLAYLSTVGVS
 FFITCITLVYSMAHSFGESYRVGSTSGIHAITVFCSDYKVTQKRASRLQQDNIRTRLKELLAQWQLRHS
 PRSVCGRRLQAAVLGLVWLLCLGTALGCAVAVHVFSEFMIQSPEAAGQEAVLLVPLVVGLLNLGAPYLC
 RVLAALEPHDSPVLEVYVAICRNLIKLAITLGTLCYHWLGRRVGLVGGQWEDFVGQELYRFLVMDFVLM
 LLDTLFGELVWRIISEKKLKRRRKPEFDIARNVLELIYGQTLTWLGVLFSPLLPAVQIIKLLLVFYVKKT
 SLLANCQAPRRPWLASHMSTVFLTLLCFPAFLGAAVFLCYAVWQVKPSSTCGPFRTLDTMYEAGRVVVRH
 LEAAGPRVSWLPWVHRYLMENTFFVFLVSALLAVIYLNQVVRGQRKVICLLKEQISNEGEDKIFLINK
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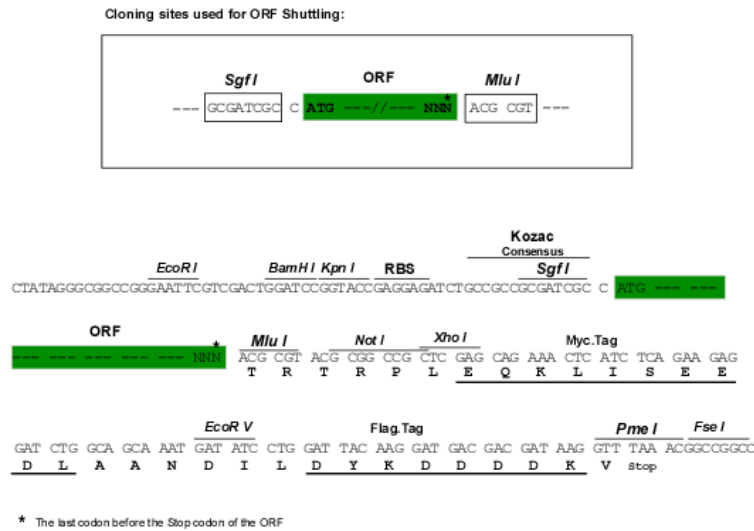
Chromatograms:

https://cdn.origene.com/chromatograms/mk6690_h11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001127198

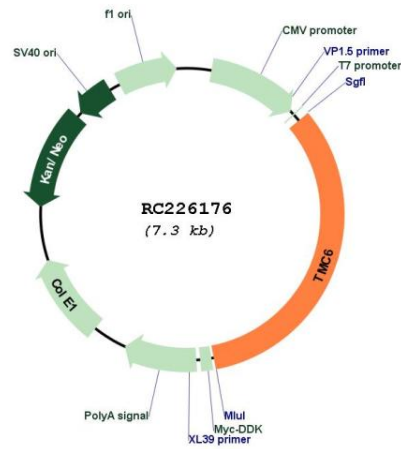
ORF Size: 2415 bp

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](#)

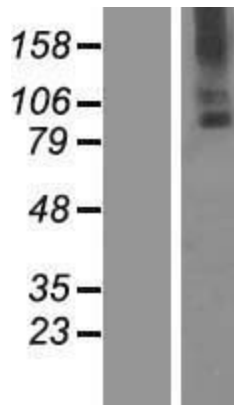
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001127198.5</u>
RefSeq Size:	2891 bp
RefSeq ORF:	2418 bp
Locus ID:	11322
UniProt ID:	<u>Q7Z403</u>
Cytogenetics:	17q25.3
Protein Families:	Transmembrane
MW:	90.1 kDa
Gene Summary:	Epidermodysplasia verruciformis (EV) is an autosomal recessive dermatosis characterized by abnormal susceptibility to human papillomaviruses (HPVs) and a high rate of progression to squamous cell carcinoma on sun-exposed skin. EV is caused by mutations in either of two adjacent genes located on chromosome 17q25.3. Both of these genes encode integral membrane proteins that localize to the endoplasmic reticulum and are predicted to form transmembrane channels. This gene encodes a transmembrane channel-like protein with 10 transmembrane domains and 2 leucine zipper motifs. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC226176



Western blot validation of overexpression lysate (Cat# [LY426702]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226176 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).