

## Product datasheet for **SC318289**

### **TMC6 (NM\_007267) Human Untagged Clone**

#### **Product data:**

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



**Fully Sequenced ORF:**

>SC318289 representing NM\_007267.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCAGCCACTGGCCTTCATCCTCGATGTCCTGAGACCCAGGGGACCAGGGCCAGGGCCCCAGC
CCCTATGATGAAAGCGAAGTGCACGACTCCTCCAGCAGCTCATCCAGGAGCAGAGCCAGTGCACGGCC
CAGGAGGGGCTGGAGCTGCAGCAGAGAGCGGGAGGTGACAGGAAGTAGCCAGCAGACACTCTGGCGG
CCCAGGGGACCCAGAGCAGGCCACACTCCGCATCCTGGCCAGCATGCCAGCCGACCAATTGGCCGC
AGCCGAGGTGCCATCATCTCCAGTACTACAACCGACGGTGCAGCTTCGGTGCAGGAGCAGCCGGCCC
CTGCTCGGGAATTTGTCCGCTCCGCCTGGCCAGCCTCCGCCTGTACGACCTGGAGCTGGACCCACAG
GCCCTGGAGGAGGAGGAGAAGCAGAGCCTCCTGGTGAAGGAGCTCCAGAGCCTGGCAGTGGCAGCGG
GACCACATGCTTCGCGGATGCCCTTAAGCCTGGCTGAGAAACGCAGCCTGCGAGAGAAGAGCAGGACC
CCGAGGGGGAAGTGGAGGGGCCAGCCGGGAGCGGGGCTGCTCCTGCTGTGCCGGCTCAGATAT
GCCTGCGTGTGCCCTGCACAGCTGGGCTGGCGTGTCTCCGCCCTGCAGGCCCTGATGCCGTGG
CGCTAGCCCTGAAGCGCATCGGGGGCCAGTTCGGCTCCAGCGTGTCTCTACTTCTCTTCTCAAG
ACCCTGCTGGCTTTCAATGCCCTCCTGCTGCTGCTGCTGGTGGCCTTCATCATGGGCCCTCAGGTCGCC
TTCCACCCGCCCTGCCGGGCCCTGCCCGCTGTCACAGGCTGGAGCTCCTCACAGGCGCGGGTTGC
TTCACCCACACCGTCATGTACTACGGCCACTACAGTAACGCCACGCTGAACAGCCGTGTGGCAGCCCC
CTGGATGGCAGCCAGTGCACACCCAGGGTGGGTGGCCTGCCCTACAACATGCCCTGGCCTACCTCTCC
ACTGTGGGCGTGAGCTTCTTTATCACCTGCATACCCCTGGTGTACAGCATGGCTCACTCTTTCGGGGAG
AGCTACCGGGTGGGAGCAGCTCTGGCATCCACGCCATCACCGTCTTCTGCTCCTGGGACTACAAGTG
ACGAGAAGCGGGCCTCCCGCTCCAGCAGGACAATATTCGACCCGGCTGAAGGAGCTGCTGGCCGAG
TGGCAGCTGCGGCACAGCCCCAGGAGCGTGTGCGGGAGGCTGCGGCAGGCGGCTGTGCTGGGGCTGTG
TGGCTGCTGTGCTGGGGACCGCGCTGGGCTGCGCCGTGGCCGTCCACGTCTTCTCGAGTTCATGATC
CAGAGTCCAGAGGCTGTGGCCAGGAGGCTGTGCTGCTGGTCTGCCCTGGTGGTGGCCTCCTCAAC
CTGGGGGCCCTACCTGTGCCGTGTCTGGCCGCCCTGGAGCCGATGACTCCCCGGTACTGGAGGTG
TACGTGGCCATCTGCAGGAACCTCATCCTCAAGCTGGCCATCCTGGGGACACTGTGCTACCACTGGCTG
GGCCGAGGGTGGGCGTCTGCAGGGCCAGTGTGGGAGGATTTTGTGGCCAGGAGCTGTACCGGTTT
CTGGTGATGGACTTCGTCTCATGTTGCTGGACACGCTTTTGGGGAAGTGGTGTGGAGGATTATCTCC
GAGAAGAAGCTGAAGAGGAGGCGGAAGCCGGAGTTTGACATTGCCCGGAATGTCTGGAGCTGATTTAT
GGGAGACTCTGACTGGCTGGGGGTGCTCTTCTCGCCCTCCTCCCCGCGTGCAGATCATCAAGCTG
CTGCTCGTCTTCTATGTCAAGAAGACAGCCTTCTGGCCAAGTGCAGGCGCCGCGCCGGCCTGGCTG
GCCTCACACATGAGCACCCTCTTCTCACGCTGCTCTGCTTCCCCGCCCTTCTGGGCGCCGTGTCTTC
CTCTGCTACGCCGTCTGGCAGGTGAAGCCCTCGAGCACCTGCGGCCCTTCCGAGCCTGGACACCATG
TACGAGGCCCGGAGGGTGTGGGTGCGCCACCTGGAGGCGGAGGCCCGAGGGTCTCTGGCTGCCCTGG
GTGCACCGGTACCTGATGGAACACCTTCTTTGTCTTCTGGTGTGAGCCCTGCTGCTGGCCGTGATC
TACCTCAACATCCAGGTGGTGGGGGCCAGCGCAAGGTCTGCTGCTCAAGGAGCAGATCAGCAAT
GAGGGTGAGGACAAAATCTTCTTAATCAACAAGCTTCACTCCATCTACGAGAGGAAGGAGGGAGGAG
AGGAGCAGGGTTGGGACAACCGAGGAGGTGCGGCACCCCTGCCCTGCTCACAGATGAACAGGATGCC
TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_007267

**Insert Size:**

2418 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                               |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RefSeq:</b>                | <u><a href="#">NM_007267.7</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq Size:</b>           | 2835 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq ORF:</b>            | 2418 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Locus ID:</b>              | 11322                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID:</b>            | <u><a href="#">Q7Z403</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cytogenetics:</b>          | 17q25.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Families:</b>      | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MW:</b>                    | 90 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1-3 encode the same protein.</p> |