

## Product datasheet for **RC228153**

### **TMEM114 (NM\_001146336) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TMEM114 (NM\_001146336) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TMEM114  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC228153 representing NM\_001146336  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGGTGCACCTGGGCGGGCTGGCCGGCGGGCTGCGCTGACCGGGCGCTCAGCTTTGTGCTCCTGG  
CGGCCGCATCGGCACGGACTTCTGGTATATCATTGACACCGAGCGGCTGGAGAGGACTGGCCCGGGGGC  
GCAGGACTGTGGGGTCCATCAATCGCAGCCAGCCGAGCCTCTGAGCTCCCACTCCGGCCTCTGGCGG  
ACCTGCCGGGTGCAGAGCCCGTGCACACCGCTGATGAACCCCTCAGGCTGGAGAACGTGACAGTCAGCC  
AATCGAGCCGGCAACTTTCACCATGCATGGGACATTTGTGATTCTGCTGCCGCTCAGCCTGATCCTGAT  
GGTTTTGGGGGATGACGGGGTTTCTGAGCTTCTCCTCCAAGCCTACCTCCTCCTCCTGCTCACTGGA  
ATTCTCTTCTTTGGAGCCATGGTGACCCTCGCTGGGATCAGCGTCTACATAGCGTATTCAGCCGCCG  
CCTTCCGGGAGGCGCTGTGTCTTGGAGGAGAAGGCCCTCCTGGACCAGGTGGACATCAGCTTCGGCTG  
GTCCCTGGCCCTGGGCTGGATCAGCTTCATCGCCGAGCTGCTCACCGGGGAGCCTTCTGGCAGCAGCC  
CGCGAGCTCAGCCTGAGACGGAGGACGAGCCAGGCCATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC228153 representing NM\_001146336  
**Red=Cloning site Green=Tags(s)**

MRVHLGGLAGAAALTGALSFVLLAAAIGTDFWYIIDTERLERTGPGAQDLLGSINRSQPEPLSSHSLWR  
TCRVQSPCTPLMNPFRLENTVSESSRQLLTMHGTFVILLPLSLILMVFGGMTGFLSFLQAYLLLLLTTG  
ILFLFGAMVTLAGISVYIAYSAAAFREALCLLEEKALLDQVDISFGWSLALGWISFIAELLTGA AFLAA  
RELSLRRRQDAI

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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Chromatograms: [https://cdn.origene.com/chromatograms/mk8038\\_h04.zip](https://cdn.origene.com/chromatograms/mk8038_h04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001146336

ORF Size: 669 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\\_001146336.1](#), [NP\\_001139808.1](#)

RefSeq ORF: 672 bp

Locus ID: 283953

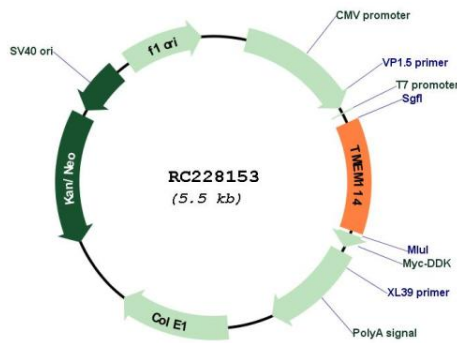
UniProt ID: [B3SHH9](#)

**Cytogenetics:** 16p13.2

**MW:** 24 kDa

**Gene Summary:** This gene encodes a glycosylated transmembrane protein that plays a role in lens and eye development. Mutations in this gene, including a t(16;22)(p13.3;q11.2) translocation, are associated with congenital and juvenile cataract disorders. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2014]

**Product images:**



Circular map for RC228153