

## Product datasheet for **RG228923**

### **TMEM44 (NM\_001166305) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TMEM44 (NM_001166305) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228923 representing NM\_001166305  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGGAGGCGCCAGCCCCGCGCCGCGCTCTGGGACTGGACTACCTGGACCCTGCTTCGCCCGCC  
 ACCGCGTCTGCATCTCCTTCGGCCTGTGGATCTGCGCCTCCTCCTGCTGGATCGCCGCCACGCGCTGCT  
 TCTCTATCTGAGATGTGCACAGAAACCCAGACAGGACCAGTCGGCACTGTGTGCTGCATGCTGCCTCCTG  
 ACCAGTCTGTGTGACACCGTCGGGGCTCTTCTGGCCAGACAGCTCACAATCCAGGTTTTCACTGGTGCCT  
 ACCTAGCAGCTATTGACTTAGTGAACCTTATGTTCACTTCTTCCAGTCTGTGGATCCAAATTCAGTC  
 TAATTCAGATCGGAAGCCCGAGAGAGGAAGAGGAGGCGGCAGCTCAGGGCCAGTGTGTTTGCCTGGCC  
 CTGCCGCTGAGCCTGGCCCGTGTGGCTCTGTGGTGTGCTGCCGAAGGCTTCAGCCACCATCCGGG  
 GGCCACAGCGGAGGCTGTAGCGAGCCTGCTGCAGGAAAATACTGAGATCCTCGGCTACCTGCTGGGTAG  
 CGTTGCTGCCTTTGGCTCCTGGCTTCTCGGATCCCCCTCTCTCCAGAATTGCCACCTCCGACTG  
 GGGATTACGACTCAACATGAGATCTGGCGGGACAAATGTCCAAACCATCCAGTCTCCCTCACATTCTC  
 CCAGCGGACATTGGCGAGCCGCTGCCAGCGTCAAGTGTGGCACTGAGATGTGCCGGGGGAAGACATT  
 TCCTCCATCCACTGTGGACCCGGCTCCTGTCGGCCCTGGCTGGCTCCTCTATGCCTCGGCCATTGTG  
 GCCACGACCGGCACCCTGAGTACCTGCTGCGGGCCACACCCTGGTTCCTGACCTCCCTCGGCCGTGCGG  
 CACTGGACCTCGCTATTATTTCTTTCTGTGTGATGAAGAGCAAGATGAGACAGGCCTTAGGATTTGC  
 CAAGGAAGCCAGAGAGCCCTGACACCAAGCCCTTTGACCTGTGCAGAGAAAGAGGAAGAAAACCCAG  
 GAGAATTTGGATTGGGTGCCTCTACCACACTGCACACTGCAAGTCACTGAGGACAATGACAGCAATCA  
 TCGCTACATGGAGCTGACCATCGAGCCTGTGCAGCAGGCAAGGCTGCAGTCCCAGGCTGCCAGGTGA  
 CGGGCAGACGAGCGCCGAGATGCGTCCCTGCAGGACCCCGTGTACCCTCCGTTCCAGGTATCCGG  
 GCCCGGTGTCTTCCGGAGCTCCTCTGAGGTCTCCTCCATCAACTCCGACCTGGAGTGGGACCCTGAAG  
 ATGTGAACCTCGAAGGCAGCAAAGAAAATGTGGAGCTACTGGGATCCCAGGTGCACCAGGACTCTGTGAG  
 GACAGCACACCTGAGTGATGATGAT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG228923 representing NM\_001166305  
 Red=Cloning site Green=Tags(s)

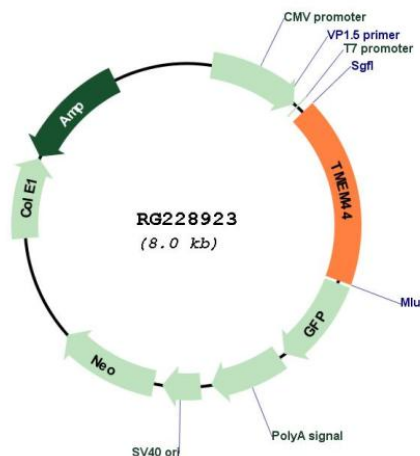
MGEAPSPAPALWDWYLDRCFARHRVCISFGLWICASSCWIAAHALLLYLRCAQKPRQDQSALCAACCLL  
 TSLCDTVGALLARQLTIQVFTGAYLAAIDL VNFMI LFPVCGSKFKSNSDREARERKRRRQLRASVFALA  
 LPLSLGPCWALWVAVPKASATIRGPQRRLLASLLQENTEILGYLLGSVAAFGWSWRIPPLSRIAPPPTL  
 GITTQHEIWRGQMSKPSQSPSHSPSGHWRAAAQRQVLGTEMCRGKTFPSIHLWTRLLSALAGLLYASAIV  
 AHDRHPEYLLRATPWFLTSLGRAALDLAIFLSCVMKSKMRQALGFAKEARESPDTQALLTCAEKEEENQ  
 ENLDWVPLTTLSHCKSLRTMTAISRYMELTIEPVQQAGCSATRLPGDQTSAGDASLQDPPSYPPVQVIR  
 ARVSSGSSEVSSINSDLEWDPEDVNLGSKENVELLGSQVHQDSVRTAHLSDDD

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001166305

**ORF Size:** 1425 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\\_001166305.1](#), [NP\\_001159777.1](#)

**RefSeq Size:** 2503 bp

**RefSeq ORF:** 1428 bp

**Locus ID:** 93109

**UniProt ID:** [Q2T9K0](#)

**Cytogenetics:** 3q29

**Protein Families:** Transmembrane