

Product datasheet for **RG213254**

TMEM121B (NM_031890) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMEM121B
Synonyms:	CECR6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG213254 representing NM_031890
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGCCCGGCGCTCGGCCACCCTCGCTCGGTCTCTCCGCGTCCGGTTCTTCCCGCCGCCCGGCGAG
 CCGCCCGGCTGCAGCCCTCTTCTCCGCGGGGCTCTTCCGCGGCCGAGAGGCTCCGGCGACAGCAG
 CACCAGCACCAGCACCAGCCGCGGGGAGGCGGCGGACAGCGCGCGGGGCGGCGGCTCCCGAGCAGC
 AGCAGCGGCGCGGAGCGGAGGACGACGAGAGCCTCAGCGTCAGCAAGCCGCTGGTGCCCAACGCCG
 CGCTCTGGGGCGCGGCTCAGGTGGGCGCCCCGCGGCCCGCGCCTGTGCGCTTCTCTCTCTCAGC
 GGCCACCTCTCTCCACCTCCAGCCCACTCTCTCTGCAGCATGACAGCCGCGGACTTCGGCGGGGGC
 GCGCGCGCGGGGCGCTCGGGGCCCCGGGAGCGCTCGCGGGGGGCGCGGGCGGACCGGACCGGCA
 GCGGCGCTCTGCTGCCGTTGCTGCTGCTGCGGCTGCCAGACCGCCCGGCGCAGAGGTGCGCG
 CCGCGGCTGCGCCCCAGTCCAGGTGCCGCTGGGGCTACCAGGCGCTGTCGTTGGTGTCTGCTGCGG
 CAGGGCGGCTGTGGACTGTACCTCATCGCGTCAACGACTGTACTGGTGTCTGGATCGCCACTG
 ACCTGGTGGTGGTGGTGGGCTGGGCATCTTCTCGCCAAGAAGACGCGGGGCGCTCGGGGCGGCGCAGC
 CAGCGGCGCGCAACACCACCTGCACCACCACGCGCGCGGCCCTGCATCTGCCCGCCCCCTCG
 GCCGCTACCGCTGGGCGCAAGGACGCGGAGCCGCGGGGCGCGGCGCGCGGGGGCGGCTGGGG
 CGGCCGCGGACGCGGGGAGTTGCGCTTCGCTACCTGGCTGGCTTATCTACTCCATCGCCTTCACTCC
 CAAGGTGGTGTGATCTGGGACGTCATCTAGACCTCATCGAGCTACGCGCGCCCTTCGGCACCACG
 GGCTTCCGTCTACCATGGCGTGTGCGTGCCTGCTCTACAGCTTGGTGGGGCCATCAGCGAGGCGG
 GCGGCCCCCGGATCGGACGAGCCCTGCTGCTGACCCAGCGGACCGCGCGGCGGATGCTTCT
 GGGCAGTGTCTGGACTGCTCGACAGCTTACGCTGGTGGAGCTGATGCTGGAGGGCGCGTGCCTG
 CCCGCGACCTGCGCTACCTGCTTATCGCGTCTACTTCTCACCTCGCTCGCCGGTGTCTGGCTCT
 ACGAGCTCAACGCCGCGGCGGCGAGCGGCTGCATCTGGGGCCAGGCTCCGGGCTGGCAGTGCAGCG
 CTTCTGCGCTGCTGGGCGGCTGCTGGTGGAGTGCCTTGTGGGCTGCGCTGCCTCTGGTGGT
 AGCTACGACGAGCCCTCTCATCTTCTGCTCAAGAACCTTCTTCTCGGCTGCGGGGCTGGAGG
 CCCTGGAGGCTGCTGGGACCGGGCAATCGGGCTCCCCGAGTGGGCGAGAGGGGCTACGGTGTCTC
 GCCCTCCGCCCTCCACCACCTCGGCCACCACCTCAGGAGGCTCCAGCTGGGCCACTGCATCTCGGAG
 AACGAGGGGGTGTCTATGGCTATGCAACACCTGGCTGTGGCTCTCAGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213254 representing NM_031890
 Red=Cloning site Green=Tags(s)

MRPALGHPRSVSSASGSFPPPPAAARLQPLFLRGGSFRRRSGDSSTSTSTSRGGGGRRGGGGSPSS
 STGAEREDDESLSVSKPLVPNAALLGPPAQVGAPAPVAFSSAATSSSTSTPTSSCSMTAADFGG
 AAAGAVGGPSRSAGGAGGTGTGSGASCCPCCCCGCPDRPGRRRRRGCAPSPRCRWGYQALSVVLLA
 QGGLLDLYL IAVTDL YWCSWIATDL VVVVGWAIFFAKNSRGRRGGAASGAHNHHLHHHHAAPPLHLPAPS
 AATAGAKARGARGAGGAGGGLGAAAAAGEFAFAYLAWLIYSIAFTPKVVLILGTSILDLIELRAPFGTT
 GFRLTMALSVPLL YSLVRAISEAGAPPGSAGPLLLQPQRHRAAGCFLGTCLDLLDSFTLVELMLEGRVPL
 PAHLRYLLIAVYFLTLASPVWL YELNAAAAAASWGQASGPGSCSRLLRLGGCLVDVPLLALRCLLV
 SYQQPLSIFMLKNLFFLGCRGLEALEGCDWRGNRASPSRARGGYGAPPSAPPPPPPPQGGSQLGHCISE
 NEGGAHGYVNTLAVASQN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031890

ORF Size: 1734 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.

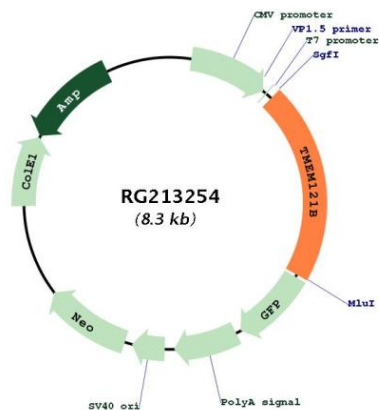
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_031890.4](#)

RefSeq Size: 4972 bp

RefSeq ORF:	1737 bp
Locus ID:	27439
UniProt ID:	Q9BXQ6
Cytogenetics:	22q11.1
Protein Families:	Transmembrane

Product images:



Circular map for RG213254