

Product datasheet for **RG214846**

TMEM132A (NM_017870) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM132A (NM_017870) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TMEM132A
Synonyms: GBP; HSPA5BP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214846 representing NM_017870
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCGCGGGATGGCCGGTCGCACAACAGCGGCCCTCGGGGGCCCTACGGCCCTGGCTCTGCCTCC
 TGGTGGCCCTCGCCCTGGACGTCGTGAGAGTGGACTGTGGCCAGGCTCCCTGGACCCTGTCTACCTGCC
 GGCAGCCCTGGAGCTCCTAGACGCCCTGAACACTTCCGTGTGCAGCAGGTGGGCCACTACCCACCTGCC
 AACTCCTCTCTGAGCTCCGATCTGAGACCTTTCTGCTCTACAGCCCTGGCCAGGGCCAGCCACTTC
 TCCGGGCTCCTACCCACCTTTTGGCACTCAGCAGGTGGTCCCCCTCGAGTCACTGAGCCCCACCAACG
 GCCAGTCCCATGGGACGTGCGGGCCGTTTCAGTGGAAAGCGGCTGTGACTCCAGCAGAGCCCTACGCCCGG
 GTTCTCTTCCACCTCAAAGGGCAGGATTGGCCACCAGGGTCTGGCAGCCTGCCCTGTGCCGGCTCCATG
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 GAGCCGGGGCGCCGGGGGTGCGAGTGGACTTCTGGTGGCGCCGCTCCGCGCCTCGTGGCTGACC



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GTGTGGGCCCCCTGCTACCGCTGCGTATCGAGCTCACCGACACCACCCTCGAGCAGGTCCGCGGCTGGA
GGGTACCTGGCCCTGCTGAAGGGCTGCGGAACCCGCTGCAGAGGCGTCGGATGAGGCCGAGCGCGCGC
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TGGGGGGCGGCGAAGCGAGTAGAGTTTGTGACATTTGCCCCAGCCCTCCAGCCAGTCACTGAGGAG
CCTGTAGGGGCCCTGCTGTGCAGTCCATCCTTGTGGCAGGCGAGGAGGACATCCGCTGGTGTGTGAGG
ACATGGGGCTGAAGGACCCTGAGGAGCTTCGCAACTACATGGAGAGGATCCGGGGCAGCTCC
    
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214846 representing NM_017870
 Red=Cloning site Green=Tags(s)

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MCARMAGRITTAAPRGPYPWLCLLVALALDVRVDCGQAPLDPVYLPAALELLDAPEHFRVQQVGHYPPA
NSSLSSRSETFLLLQPWPRAQPLLRASYPPFATQQVPPRVTEPHQRVPVWDVRAVSVEAAVTPAEPYAR
VLFHLKQDWPWGSLPCARLHATHPAGTAHQACRFQPSLGACVVELELPSHWFQASTTRAELAYTLE
PAAEGPGGCGSGEENDPGEQALPVGGVELRPADPPQYQEVPLDEAVTLRVPDMPVRPQGLFSATLLLRHN
FTASLLTLRIKVKGLHVTAARPAQPTLWAKLDRFKGSRHHTLITCHRAGLTPDSSSPELSEFLWV
DFVVENSTGGGVAVTRPVTWQLEYPGQAPEAEKDKMWEILVSEDIRALIPLAKAEELVNTAPLTGVPQ
HVPVRLVTVDGGGALVEVTEHVGESANTQVLQVSEACDAVVFAGKESRGARGVRVDFWRRRLRASLRLT
VWAPLLPLRIELDTTLEQVRGWRVPGPAEGPAEPAEASDEAERRARGCHLQYQRAGVRFAPFAAHL
DGGRRLLHLLGPDWLLDVSHLVAPHARVLDSRVASLEGGRRVVVGREPGVTSIEVRSPLSDSILGEQALAV
TDDKVSVLELRVQPMGISLTLSRGTAHPGEVATCWAQSALPAPKQEVALLSLWLSFSDHTVAPAELEYDR
RDLGLSVSAEPPGAILPAEEQGAQLGVVVSAGAEGLPLHVALHPPEPCRRRHRVPLASGTAWLGLPPA
STPAPALPSSPAWSPATEATMGGRQVAGSVGGNTGVRGKFERAEERKEETEAREEEEEEEEEEMVPA
PQHVTELELGMVALLGVFCVAIFIFLVNGVVFVLRVQRKEPPDSATDPTSPQPHNWWLGTDQEELSRQL
DRQSPGPPKGECSGPCESGGGGEAPTLAPGPPGGTSSSSTLARKEAGRRRKRVEFVTFAPAPPAQSPEE
PVGAPAVQSILVAGEEDIRWVCEMGLKDPEELRNYMERIRGSS
    
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TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_017870

ORF Size: 3072 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_017870.2](#), [NP_060340.2](#)

RefSeq Size: 3486 bp

RefSeq ORF: 3075 bp

Locus ID: 54972

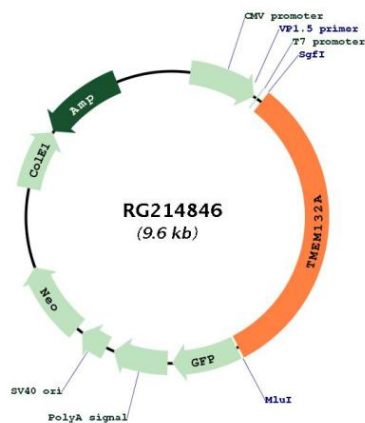
UniProt ID: [Q24JP5](#)

Cytogenetics: 11q12.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein that is highly similar to the rat Grp78-binding protein (GBP). Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214846