

Product datasheet for **RG221527**

TMEM132A (NM_178031) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM132A (NM_178031) 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:	>RG221527 representing NM_178031 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCGCGGGATGGCCGGTCGCACAACAGCGGCCCTCGGGGGCCCTACGGCCCTGGCTCTGCCTCC
TGGTGGCCCTCGCCCTGGACGTCGTGAGAGTGGACTGTGGCCAGGCTCCCTGGACCCTGTCTACCTGCC
GGCAGCCCTGGAGCTCCTAGACGCCCTGAACACTTCCGTGTGCAGCAGGTGGCCACTACCCACCTGCC
AACTCCTCTCTGAGCTCCGATCTGAGACCTTTCTGCTCTACAGCCCTGGCCAGGGCCAGCCACTTC
TCCGGGCTCCTACCCACCTTTTGGCACTCAGCAGGTGGTCCCCCTCGAGTCACTGAGCCCCACCAACG
GCCAGTCCCATGGGACGTGCGGGCCGTTTCAGTGGAAAGCGGCTGTGACTCCAGCAGAGCCCTACGCCCGG
GTTCTCTTCCACCTCAAAGGGCAGGATTGGCCACCAGGGTCTGGCAGCCTGCCCTGTGCCGGCTCCATG
CCACACACCCTGCAGGCACTGCTCACCAGCCTGCCGCTTCCAGCCATCCCTGGGCGCCTGCGTGGTGG
GCTGGAGCTTCCCTCGCACTGGTTCTCACAGGCCCTCCACCACACGGGCGGAGCTGGCCTACACGCTTGA
CCTGCAGCTGAGGGCCCTGGGGCTGTGGCTCCGGCGAGGAGAACGACCTGGGGAGCAGGCCCTCCAG
TGGGGGTGTGGAGCTGCGCCAGCAGACCCCCGAGTACCAGGAGGTACCTCTGGACGAGGCTGTGAC
TCTGCGGGTGCCTGACATGCCAGTGCGGCCCGGCCAGCTCTTTAGTGCTACCTCCTGCTTCGGCACAAC
TTCACAGCCAGCCTCCTGACCCTGCGGATCAAGGTGAAGAAGGGCTGCATGTGACAGCCGCCGCCAG
CCCAGCCACACTCTGGACTGCCAAGCTAGACCGCTTCAAGGGCTCCAGGCACCACACCCTCATCAC
CTGCCACCGTGCTGGCTCACAGAGCCAGATTCCAGTCCCCTTGAAGTGTCTGAGTTCCTATGGGTGGAC
TTTGTGGTGGAGAATAGCACTGGTGGGGCGTAGCGGTCACTCGCCCCGTACGTTGGCAGCTGGAGTACC
CAGGCCAGGCCCTGAAGCAGAGAAGGACAAAATGGTGTGGAAATCCTGGTGTCTGAGCGGGACATCAG
AGCCCTTATCCCCTGGCCAAGGCTGAGGAGCTGGTGAATACAGCACCCTGACTGGAGTGGCCAGCAT
GTCCCCGTGCGCCTTGTCACTGTGGACGGCGGGGGCCCTTGGTGGAGGTGACAGAGCATGTCGGCTGCC
AGTCTGCCAACACACAGGCTCTGCAGGTGTCTGAGGCCTGTGATGCCGTTCGTGGCTGGCAAGGAGAG
CCGGGGCGCCCGGGGGTGCAGTGGACTTCTGGTGGCGCGGCTCCGCGCTCGCTGCGGCTGACCGT



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TGGGCCCCCTGCTACCGCTGCGTATCGAGCTACCGACACCACCTCGAGCAGGTCCGCGGCTGGAGGG
TACCTGGCCCTGCTGAAGGGCTGCGGAACCCGCTGCAGAGGCGTCGGATGAGGCCGAGCGGCGCCCCG
TGGCTGCCACCTGCAGTACCAGCGGGCCGGTGTGCGCTTCTCGCCCCCTTCGCGGCCACCCGCTGGAC
GGCGGCCGCCCTCACGCACCTGCTTGGCCCCGACTGGCTGCTAGACGTGTCCACCTCGTGGCGCCAC
ACGCCCCGCTGCTGGACTCGCGTGTAGCCTCTCTGGAGGGTGGCCGTGTCGTGGTGGGCCGGGAGCCCG
TGTACCTCCATTGAGGTGCGTTCCTACTGTCTGACTCCATCTGGGGGAGCAGGCGCTGGCTGTGACG
GACGACAAGGTCTCAGTCTGGAGCTGAGGGTGCAGCCAGTGTGGGCATCTCGTACCTTGAGCCGGG
GCACTGCCACCCCGGGGAGGTACAGCTACGTGCTGGGCACAGTACGCCCTTCCCGCCCCAAAGCAGGA
GGTGGCCCTCTCCCTATGGCTGTCTTCTCTGATCACACTGTGGCCCCAGCTGAGCTCTACGACCCCGT
GACCTGGGACTGTCCGTCTCAGCCGAGGAGCCTGGTGCCATCTGCCAGCTGAGGAGCAGGGTGCCAGC
TCGGGGTGGTGGTGTGAGTGGGGCAGGCGCCGAGGGGCTGCCGCTGCATGTGGCTCTGACCCGCCGAGCC
CTGCCGCCGGGGCCGCCACCGTGTGCCTCTGGCCTCTGGCACCCTGGTGGGGCTGCCCTGCTCCTC
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AACGGCAGGTGGCAGGAGTGTGGGGGCAACACAGGTGTGAGGGGCAAGTTTGGCGGGCAGAGGAGGA
GGCCAGGAAGGAGGAGACCGAAGCCAGGGAGGAGGAGGAAGAGGAGGAGGAGATGGTCCCTGCCCT
CAGCATGTCACTGAGCTAGAGCTGGGCATGTACGCCCTGCTGGGAGTCTTCTGCTGGCCATCTTATCT
TCTTGGTCAATGGTGTGGTCTTCTGCTGCGCTATCAGCGCAAAGAACCCTCCCGACAGTGCCACTGACCC
CACCTCCCCCAGCCCCACAACCTGGGTCTGGTGGGCACTGACCAGGAGGAACTGAGCCGCCAGCTGGAC
CGGCAGTCCCCTGGCCGCCCAAGGGGAGGGGAGCTGCCCTGTGAGAGTGGGGGAGGAGGGGAGGCC
CTACCTGGCCCCGGCCCTCTGGGGGACCACCAGCTCCTCAAGCACCTGGCCCGAAAGGAGGCTGG
GGGGCGCGGAAGCGAGTAGAGTTTGTGACATTTGCGCCAGCCCTCCAGCCAGTCACCTGAGGAGCCT
GTAGGGGCCCTGCTGTGCAGTCCATCTTGTGGCAGGCGAGGAGGACATCCGCTGGTGTGTGAGGACA
TGGGGCTGAAGGACCTGAGGAGCTTCGCAACTACATGGAGAGGATCCGGGGCAGCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221527 representing NM_178031
Red=Cloning site Green=Tags(s)

MCARMAGRITTAAPRGPYPWLCLLVALALDVVRVDCGQAPLDPVYLPAALELLDAPEHFRVQQVGHYP
NSSLSSRSETFLLLQPWPRAQPLLRASYPPFATQQVVPVRVTEPHQRVPVWDVRAVSVEAAVTPAEPYAR
VLFHLKQDWPWGSLPCARLHATHPAGTAHQACRFQPSLGACVVELELPSHWFQASTTRAELAYTLE
PAAEGPGGCGSGEENDPGEQALPVGGVELRPADPPQYQEVPLDEAVTLRVPDMPVRPQGLFSATLLLRHN
FTASLLTLRIKVKKGLHVTAARPAQPTLWAKLDRFKGSRHHTLITCHRAGLTPDSSPLESEFLWVD
FVVENSTGGGVAVTRPVTWQLEYPGQAPEAEKDKMVWEILVSRDIRAL IPLAKAEELVNTAPLTGVPQH
VPVRLVTVDGGGALVEVTEHVGESANTQVLQVSEACDAVFVAGKESRGARGVRVDFWRRRLRASLRLTV
WAPLLPLRIELTDTTLEQVRGWRVPGPAEGPAEPAEASDEAERRARGCHLQYQVRAGVRFAPFAHPLD
GRRRLTHLLGPDWLLDVSHLVAPHARVLDNRVASLEGGRRVVGREPVTSEIEVRSPLSDSILGEQALAVT
DDKVSVLELRVQPMGISLTLRGTAPHPGEVATCWAQSALPAPKQEVALLSLWLSFSDHTVAPAEYDRR
DLGLSVSAEPPGAILPAEEQGAQLGVVVSAGAGLPLHVALHPPEPCRRGRHRVPLASGTAWLGLPPAS
TPAPALPSSPAWSPATEATMGGKRQVAGSVGGNTGVRGKFERAEERKEETEAREEEEEEEEEEMVAP
QHVTLELELGMVALLGVFCVAIFIFLVNGVVFVLRVYQRKEPPDSATDPTSPQPHNWWLGTQDEELSRQLD
RQSPGPPKGEKSCPCESGGGAEPTLAPGPPGTTSSSSTLARKEAGRRKRVEVTFAPAPPAQSPPEP
VGAPAVQSVLVAGEEDIRWVCEMGLKDPEELRNYMERIRGSS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_178031.1, NP_821174.1</p>
RefSeq Size:	<p>3483 bp</p>
RefSeq ORF:	<p>3072 bp</p>
Locus ID:	<p>54972</p>
UniProt ID:	<p>Q24JP5</p>
Cytogenetics:	<p>11q12.2</p>
Protein Families:	<p>Transmembrane</p>
Gene Summary:	<p>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]</p>