OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC221527

TMEM132A (NM_178031) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM132A (NM_178031) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM132A
Synonyms:	GBP; HSPA5BP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC221527 representing NM_178031
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGCGCGCGGATGGCCGGTCGCACAACAGCGGCCCCTCGGGGGCCCTACGGCCCCTGGCTCTGCCTCC
TGGTGGCCCTCGCCCTGGACGTCGTGAGAGTGGACTGTGGCCAGGCTCCCCTGGACCCTGTCTACCTGCC
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AACTCCTCTCTGAGCTCCCGATCTGAGACCTTTCTGCTCCTACAGCCCTGGCCCAGGGCCCAGCCACTTC
TCCGGGCCTCCTACCCACCTTTTGCCACTCAGCAGGTGGTCCCCCCTCGAGTCACTGAGCCCCACCAACG
GCCAGTCCCATGGGACGTGCGGGCCGTTTCAGTGGAAGCGGCTGTGACTCCAGCAGAGCCCTACGCCCGG
GTTCTCTTCCACCTCAAAGGGCAGGATTGGCCACCAGGGTCTGGCAGCCTGCCCTGTGCCCGGCTCCATG
CCACACACCCTGCAGGCACTGCTCACCAAGCCTGCCGCTTCCAGCCATCCCTGGGCGCCTGCGTGGTGGA
GCTGGAGCTTCCCTCGCACTGGTTCTCACAGGCCTCCACCACACGGGCCGAGCTGGCCTACACGCTTGAG
CCTGCAGCTGAGGGCCCTGGGGGCTGTGGCTCCGGCGAGGAGAACGACCCTGGGGAGCAGGCCCTCCCAG
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CTGCCACCGTGCTGGGCTCACAGAGCCAGATTCCAGTCCCCTTGAACTGTCTGAGTTCCTATGGGTGGAC
TTTGTGGTGGAGAATAGCACTGGTGGGGGCGTAGCGGTCACTCGCCCCGTCACGTGGCAGCTGGAGTACC
CAGGCCAGGCCCCTGAAGCAGAGAAGGACAAAATGGTGTGGGAAATCCTGGTGTCTGAGCGGGACATCAG
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GTCCCCGTGCGCCTTGTCACTGTGGACGGCGGGGGGGCCTTGGTGGAGGTGACAGAGCATGTCGGCTGCG
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CCGGGGCGCCCGGGGGGTGCGAGTGGACTTCTGGTGGCGCCGGCTCCGCGCCTCGCTGCGGCTGACCGTG

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TGGGCCCCCCTGCTACCGCTGCGTATCGAGCTCACCGACACCACCCTCGAGCAGGTCCGCGGCTGGAGGG
TACCTGGCCCTGCTGAAGGGCCTGCGGAACCCGCTGCAGAGGCGTCGGATGAGGCCGAGCGGCGCGCCCG
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TCTTGGTCAATGGTGTGGTCTTCGTCCTGCGCTATCAGCGCAAAGAACCTCCCGACAGTGCCACTGACCC
CACCTCCCCCCAGCCCCACAACTGGGTCTGGCTGGGCACTGACCAGGAGGAACTGAGCCGCCAGCTGGAC
CGGCAGTCCCCTGGCCCGCCCAAGGGGGAGGGGAGCTGCCCCTGTGAGAGTGGGGGAGGAGGGGAGGCCC
CTACCCTGGCCCCTGGCCCTCCTGGGGGCACCACCAGCTCCTCAAGCACCCTGGCCCGAAAGGAGGCTGG
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GTAGGGGCCCCTGCTGTGCAGTCCATCCTTGTGGCAGGCGAGGAGGACATCCGCTGGGTGTGTGAGGACA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221527 representing NM_178031
Red=Cloning site Green=Tags(s)

MCARMAGRTTAAPRGPYGPWLCLLVALALDVVRVDCGQAPLDPVYLPAALELLDAPEHFRVQQVGHYPPA
NSSLSSRSETFLLLQPWPRAQPLLRASYPPFATQQVVPPRVTEPHQRPVPWDVRAVSVEAAVTPAEPYAR
VLFHLKGQDWPPGSGSLPCARLHATHPAGTAHQACRFQPSLGACVVELELPSHWFSQASTTRAELAYTLE
PAAEGPGGCGSGEENDPGEQALPVGGVELRPADPPQYQEVPLDEAVTLRVPDMPVRPGQLFSATLLLRHN
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FVVENSTGGGVAVTRPVTWQLEYPGQAPEAEKDKMVWEILVSERDIRALIPLAKAEELVNTAPLTGVPQH
VPVRLVTVDGGGALVEVTEHVGCESANTQVLQVSEACDAVFVAGKESRGARGVRVDFWWRRLRASLRLTV
WAPLLPLRIELTDTTLEQVRGWRVPGPAEGPAEPAAEASDEAERRARGCHLQYQRAGVRFLAPFAAHPLD
GGRRLTHLLGPDWLLDVSHLVAPHARVLDSRVASLEGGRVVVGREPGVTSIEVRSPLSDSILGEQALAVT
DDKVSVLELRVQPVMGISLTLSRGTAHPGEVTATCWAQSALPAPKQEVALSLWLSFSDHTVAPAELYDRR
DLGLSVSAEEPGAILPAEEQGAQLGVVVSGAGAEGLPLHVALHPPEPCRRGRHRVPLASGTAWLGLPPAS
TPAPALPSSPAWSPPATEATMGGKRQVAGSVGGNTGVRGKFERAEEEARKEETEAREEEEEEEEEMVPAP
QHVTELELGMYALLGVFCVAIFIFLVNGVVFVLRYQRKEPPDSATDPTSPQPHNWVWLGTDQEELSRQLD
RQSPGPPKGEGSCPCESGGGGEAPTLAPGPPGGTTSSSSTLARKEAGGRRKRVEFVTFAPAPPAQSPEEP
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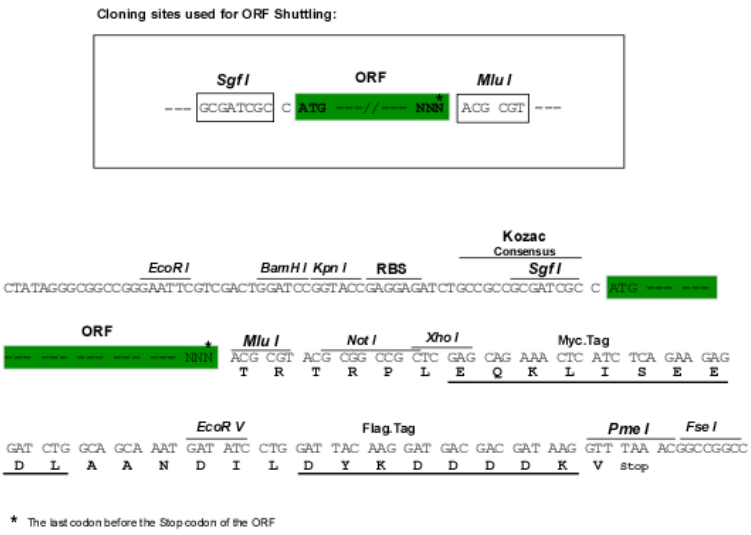
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178031

ORF Size: 3069 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_178031.1, NP_821174.1

RefSeq Size: 3483 bp

RefSeq ORF: 3072 bp

Locus ID: 54972

UniProt ID: Q24JP5

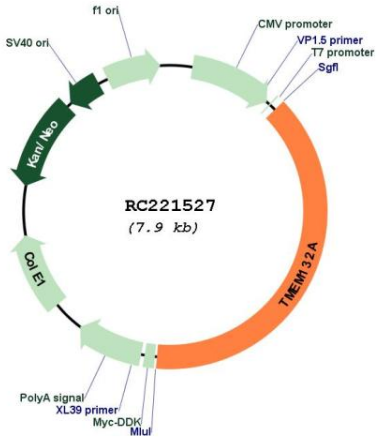
Cytogenetics: 11q12.2

Protein Families: Transmembrane

MW: 109.9 kDa

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 RC221527