

Product datasheet for **RR209155**

Tmem132a (NM_178021) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem132a (NM_178021) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem132a
Synonyms:	Gbp; Hspa5bp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209155 representing NM_178021 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACGGAACGTGCGGCAGCGGCCCTCGGGGCCCTACGGTGCCTGGCTCTGCCTCTGGTGGCTCTCG
CCCTGGAAGTCGTGAGAGTTGGCAGTAACCAAAATACCCTGGACCCCATCTACCTGCCAGTGGCCCTGGA
ACTCCTGGATGCCCTGAACATTTTCGGGTGCAGCAGGTGGCCACTACCCACCTGCCAACTCTTCTCTG
GGCTCCCGCTCTGAGACCTTCTGCTCATGCAGCCCTGGCCAGGCACAGCCACTTCTCCGGGCCCTCT
ACCCACCTTTTGCACTCAGCAGGTGGTCCCTCCTAGGGTCACTGAGCCCCACCGGCACCTGTCCCTTG
GGATGTGCGGGCTGTTCCGTGGAAGCAGCGGTGACTCCAGCAGAGCCCTATGCCCGTGTCTTCCAC
CTCAAAGGGCAGGATTGGCCACCAGGACCTGGCAGCTTGCCTGTGCCGACTACATGCCACACCCCTG
CAGGCACTGCTCACCAAGCCTGCCGCTTCCAGCCATCTCTGGGTGCCTGTGTAGTGAAGTGCAGTTCCC
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GGCCCTGGGGCTGTGGCCCTGGCAGCGGAGGAGAAACCAAGGAGCAGGCTCTCCAGTGGTGTGTGG
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CTTCTTACTCTGCGGATCAAGGTGAAGAAAGGGTACAGGTGACAGCTGCCCGCCAGCCAGCCACCT
TCTGGACCCTAAGCTGGACCGTTCAAGGGCTCAAAGCACCACACCAGTCTGATCACCTGTACCAGCAC
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AATAGCACCGGTGGGGTGTGGCAGTCACTCGACCTGTCAGTGGCAGCTGGAGTACCCAGGTGAGGCC
CTGAAGCAGAGAAGGACAAAATGGTGTGGGAGATCCTGTTTTCTGAGCGGACATCAGAGCCCTCATCCC
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CTACCCTTGCATTGAGCTGACTGACACCCTTGAACAAATCCGAGGCTGGCGGGTCCAGGCCAG



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CAGAAGGGCAGTTAGAGCCGGAGGCTGCTGCAGAGGAGGTGGAGCGGCGCTCCCGCGGCTGCCGCTGCA
 GTACCAGAGAGCTGGAGTACGCTTCTTAGTGCCCTTTGCGGCTCACCCGCTGGACGGTGGCCGCCGCTC
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 GTGATATGGGGAGCCATGTGGTCCGGCATTAGGGGCAAGTTTGGCGGGCAGAGGAGGAAGCTGGGAA
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 GACCTAGAGCTGGGAATGTATGCTCTGTGGGCATCTTCTGTTTGGCCTTCTCATCTTCTGGTCAATG
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 GAAGCGAGTGAATTTGTGACATTTGCACCAGCACCCCGAGCCAGGAGGCGCTGAGGAGCCTGTAGGG
 GCCCGGCTGTACAGTCCATCCTGGTAGCAGGTGAGGAGGACATCCGCTGGGTGTGCGAGGACATGGGG
 TGAAGGACCCAGAGGAGCTTCGGAACACATGGAGAGGATCCGGGGCAGCTCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGTTTAA

Protein Sequence:

>RR209155 representing NM_178021
 Red=Cloning site Green=Tags(s)

MTERAAAAPRGPYGAWLCLLVALALEVVRVGSNQNTLDPIYLPVALELLDAPEHFRVQVGHYPPANSSL
 GSRSETFLLMQWPRAQPLLRSYPPFATQQVPPRVTEPHRRPVWDVRAVSVEAAVTPAEPYARVLFH
 LKGQDWPPGPGSLPCARLHATHPAGTAHQACRFQPSLGACVVELQFSPQWFSQSATTRAELAYTLEPAGE
 GPGGCGPTEEEPKEQALPVGSVELHPEDPPQHQEVPLDEVVTLRAPDVPVRPQQLFATLLLRHNFTAS
 LLTLRIKVKKGLQVTAARPAQPTFWTAKLDRFKGSKHHTSLITCHRTGPAGPDSRPLEPEFLWDFAVE
 NSTGGVAVTRPVTWQLEYPGQAPEAEKDKMWEILFSEDIRAL IPLAKAEELVNTAPL TGVPQRIQVVR
 LVTVDSSGAL EEVTEHIGCESANTQVLQVSEACDAVFVAGQESRGAKGVRVDFWRRRLRASLKL TVWAPL
 LPLRIELTDTTLEQIRGWRVPGAEGQLEPEAAAEVEERRSRGCRLOQYRAGVRFVLPFAAHPDGGRRL
 THLLGPDWLLDVSHLVAHAHVQDPRIATLEGGRIILVGREPGVTSIEVRSPLSDSILGEQALAVTDDKVS
 VLDLRVQPMGISLSLSRGVSHPGEVATCWAQSALPAPKQEVALLSLWLSFSDHTLAPAELYDRNDLGLS
 YSAEESA VVPAEEQRAQLGVVVSQVGAAGLPLHVALHPPEPCRRGRHRVPLASGTAWLGLPPLPTPAPA
 LPSSPARTPPFTEASVEGKRQVAGDMGSHVGPGRGKFERAEAEAGKEENEAKKEEEDDEEMVPAPQVVT
 DLELGMYALLGIFCLAFILFVNGVVFVLRVQRKEPPDSVTDPA SPQPHNWVWLTGNQEELSRQLDRCSS
 SSPPKGEAGGCPCEGAGGDTSTVAPSASESPAGSTSTLARKEAGRRKRVEVTFAPAPPAQEAPPEPVG
 APAVQSILVAGEEDIRWVCEDMGLKDPEELRNYMERIRGSS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	<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:	<u>NM_178021.1</u> , <u>NP_821140.1</u>
RefSeq Size:	3066 bp
RefSeq ORF:	3066 bp
Locus ID:	338474
UniProt ID:	<u>Q80WF4</u>
Cytogenetics:	1q43
MW:	110.6 kDa
Gene Summary:	ER/Golgi protein that negatively regulates serum starvation-induced cell death in culture; may be involved in brain development [RGD, Feb 2006]