

Product datasheet for **RR202457**

Tgm2 (NM_019386) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgm2 (NM_019386) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tgm2
Synonyms:	Tgasell
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR202457 representing NM_019386
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGAGGAGCTGAACCTGGAGAGGTGCGATTTGGAGATACAGCCAATGGCCGTGATCACCACACGG
 CCGACCTGTGCCAAGAGAACTGGTGTGCGGCCGAGGCCAGCGCTTCCGGCTGACTGTACTTCGAGGG
 CCGTGGCTATGAGGCCAGCGTGGACAGACTTACATTTGGTGCCTGACCGGCCAGATCCCAAGTGAAGAG
 GCAGGGACCAAGGCCGCTTCTCACTGTCTGACGATGTGGAGGAGGGATCCTGGTCAGCCTCTGTCTGG
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 CAGCCTGGAGACTTCTACTGGCTACCAAGGCTCCAGCTTCATGCTGGGTCACTTCATCCTGCTCTTCAAT
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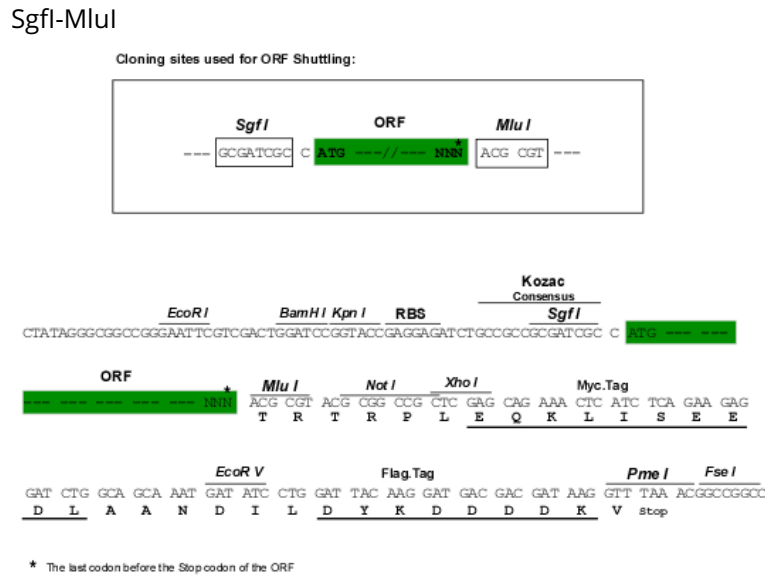
Protein Sequence: >RR202457 representing NM_019386
 Red=Cloning site Green=Tags(s)

MAEELNLERCDLEIQANGRDHHTADLCQEKLVLRRGQRFRLTYFEGRGYEASVDRLTFGAVTGPDPSEE
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 AWCADDVYLDSEARREYVL TQQGFIYQGSVKF IKSVPWNFGQFEDGILDACLMLLDVNPFLKDRSRD
 CSRSSPIYVGRVVSVMVNCDDQGVLLGRWDNNYGDG I SPMAWIGSVDILRRWKEHGCGQVYKYGQCWVF
 AAVACTVLRCLGIPTRVVTNNSAHDQNSNLLIEYFRNEYGELESNKSEMIWNFHCWVESWMTRPDLQPG
 YEQWQAIPTPQEKSEGTGCCPVSVRAIKEGDLSTKYDASFVFAEVNADVVDWIRQSDGSVLKSIINNSL
 VVGQKISTKSVGRDDREDITYTYKYPEGSPEEREVFTANHLNKLAEKEETGVAMRIRVGDGMSLGNDFD
 VFAHIGNDTSRECRLLL CARTVSYNGVLGPECGTEDINL TDPYSENSIPLRILYKESGCLTESNLI
 KVRGLLVEPAANSYLLAERDLYLENPEIKIRILGEPKQNRKLVAEVSLKNPLSDSLYDCVFTVEGAGLTK
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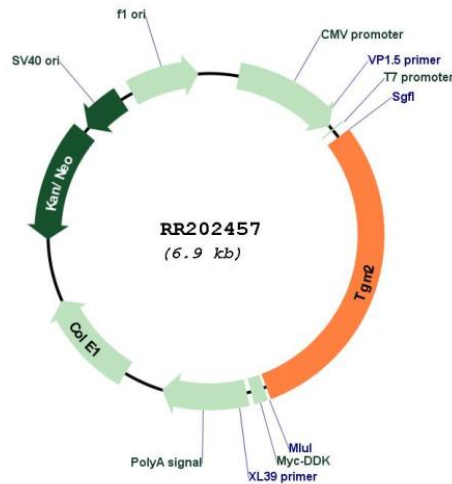
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Cloning Scheme:



Plasmid Map:



ACCN: NM_019386

ORF Size: 2058 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.

RefSeq: [NM_019386.2](#), [NP_062259.2](#)

RefSeq Size: 3526 bp

RefSeq ORF:	2061 bp
Locus ID:	56083
UniProt ID:	<u>Q6P6R6</u>
Cytogenetics:	3q42
MW:	76.9 kDa
Gene Summary:	catalyzes acyl transferase reaction of gamma-carboxamide groups of glutamine residues (donor peptide) with epsilon-amino groups of lysine residues (acceptor peptide) [RGD, Feb 2006]