

Product datasheet for **RR213904**

Tgm4 (NM_022713) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgm4 (NM_022713) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tgm4
Synonyms:	Dp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR213904 representing NM_022713
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTCCAGGAACATGCTTGTCTGTTACTCTGTGAACCTGGAGAAAAAGCTGAACGCTGCTGCCACC
 ACACGATTGAGTACCAAACCTCAGAAGCTCGTGCTCAGGCGTGGACAGATATTCTCCCTGAAGGTGATGCT
 AACAGACCGCTCCAATCTCATGATGAACCTGAAGCTGATATTCAATACTGGACACAACATGCCATTCTAC
 ACTGTGGAGCTTGATCCAATGACATCCTACCGTCCAAGGGCTGGCAGGTGAAGATTGCTAAACAGTCTG
 GTGTAGAGGTTGATTGAATGTCATCAGTGCTGCCGACGCGTGGTGGGAGGTACACGATGAACGTGAA
 CGAATTTGACGCTGGAGTGTCTTCTCTCTTCAATCCGTGGTGTCTCAGATGACAGTGTCTTCATGGCT
 AGTGAGGAAGACCGAGCAGAGTACGTCTTAATGATACCGGTTACATGTACATGGGTTTTGCCAAACAGA
 TTAAGAGAAGCCCTGGACCTTTGGTCAGTTTGAGAAGTACATCTTGAACCTGCTGCTCCGATTGTTGAC
 CCATTTGGAGCCCAAGGAAATGCAGAGCCAGTGTGTGTCCAGGGCCATTTGACTATGATGTGTGCT
 GCAAACAATTTGGAGTGTGGTGGGAACTGGACAGGAGACTATAGCAATGGCACTGCCCGTATGTGT
 GGGCCAGCAGTGTACCCATTCTCCAGCAGCACTACATCACCAGGATGCCTGTACGCTTTGGCCAGTGTG
 GGTTTTCTCTGGAGTCTGACCACAGCACTGAGAGCAGTGGGCATCCCAGCTCGCAGCGTACTAACTTT
 GAGTCAGCCCACGATACAGAAAAGAACCTCAGAGTAGACATCTACCTGGATGAATCGGGCAAGACAATTC
 CACATCTGACCAAAGACTCTGTCTGGAATTTCCATGTGTGGACAGATGCCTGGATGAAAAGACAGGATCT
 ACCCCAGGGCCATGATGGTTGGCAGGCTCCTGGATTCTACACCACAGGAAATCAGTGAAGGACAATTCGCG
 ATTTGGACCTTACCGGTGTCTGCTATCCGCCAGGGATTGGTCAAATCATGTATGACACCACATTTGTGT
 TCACGGAGGTGAACGGTGACAAGTACATCTGGCTGGTGAAGCAGAACCAGGAAAGGAGAAGAATGTCTCT
 CATCGCTGTGGAGACTGCTAGCATCGGCAAGAACATCAGCACCAAGATGGTGGGCGAGAACAGCGCTCAA
 GATATTACCTTGCAATACAAGTCCCAGAAGGCAGCCAGAGGAGAGGAAGGCCATGGAGAAGGCCCTCTG
 GAAAACGTCTGATGACAAGCTCAACTCTCGGACACTTCACATATCTGTCTCCAGAACTCTGTGGAGCT
 AGGACATCCTATCAATTTGACCATAGTGTGAAAAGGAAAACGGCCACACCACAGAATGTCAACATTTCA
 TGCTCCCTTGACCTACAGACTTACACAGGCAACAAGAAGACAACTGGGAGTCTCCAGAAGACTGTGC
 AGATTAAGGCCAAGAATCAGAGGTGTCTCTCAGCATGGATTCCAGTTTCTACATCTATAAACTGGGCAT
 GGTGATGATGAGATGGTCATTAAGGGTTCATCATTGCAGAAATGTTGATTCTGGTGAACGGGTAGCC
 ACTGATACGACCCTGTGTTTCTGTACTCTGCCTTCTCTGTAGAGATGCCGAGCACAAGCAAGGTCAACC
 AGCCTCTGACCATCACCTGCAACTTCAAGAACCCTGCCATCCCTTTGACTAACATCAAGTTCTCAGT
 GGAAAGCCTGGGCTCAATAACATGAAGTCTGGGAGCAAGAGACGGTGGCGCCCGGAAAGACCATCAAT
 TTCCAGATAGAATGCACCCAGTAAAACCTGGACCCAGGAAGTTCATTGTCAAGTTTATTTCCAGACAAG
 TGAAGAGGTTTCATGCCGAGAAGGTCGTTCTCATCAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213904 representing NM_022713
Red=Cloning site Green=Tags(s)

MDSRNMLVVYSVNLKLLNAAAHTIEYQTQKLVLRGQIFSLKVMLNRPLQSHDELKLI FNTGHNMPFY
 TVELDPMTSYRSKGWQVKIAKQSGVEVVLNVISAADAVVGRYTMNVNEFDAGVFFLLFNPWCSDDSVFMA
 SEEDRAEYVRLNDTGYMYMGFAKQIKEPWTFFGQFEKYILNCCFRLLTHLEPKEMQSPVLVSR ICTMMCA
 ANNFGLVGNWTDYNSGTAPYVWASSVPILQQHYITRMPVRFQGCWVFSGLVLTALRAVGIPARSVTNF
 ESAHDTEKNLRVDIYLDESGKTIPLHTKDSVWNFHVWTDAMMKRQDLPGHGDGWQLDSTPQEISEGQFR
 IGPSPVAIRQGLVQIMYDTTFVFTEVNGDKYIWLVKQNQEREKNVLI AVETASIGKNISTKMVGENRRQ
 DITLHYKFPEGSPEERKAMEKASGKRPDDKLNRTLHISVLQNSVELGHPINLTI VLKRKTATPQNVNIS
 CSLDLQTYTGNKKTNLGVIQKTVIQGQESEVLSMDSSFYIYKLG MVDDDEMVIKGFIIAEIVDSGERVA
 TDTTLCFLYSAFSVEMPSTSKVNQPLTITCNFKNTLPIPLTNIKFSVESLGLNMMKSWEQETVPPGKTIN
 FQIECTPVKTGPRKFIKFI SRQVKEVHAEKVVLITK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_022713

ORF Size: 2001 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_022713.2](#), [NP_073204.2](#)

RefSeq Size: 2868 bp

RefSeq ORF: 2004 bp

Locus ID: 64679

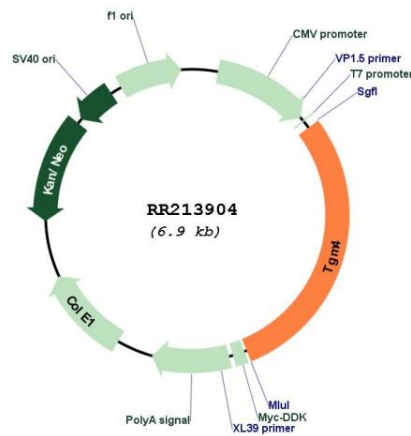
UniProt ID: [Q99041](#)

Cytogenetics: 8q32

MW: 75.6 kDa

Gene Summary: may act as an androgen-regulated transglutaminase [RGD, Feb 2006]

Product images:



Circular map for RR213904