

Product datasheet for **RG202705**

Transglutaminase 4 (TGM4) (NM_003241) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transglutaminase 4 (TGM4) (NM_003241) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Transglutaminase 4
Synonyms:	hTGP; TGP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202705 representing NM_003241
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGGATGCATCAAAGAGCTGCAAGTCTCCACATTGACTTCTTGAATCAGGACAACGCCGTTTCTC
 ACCACACATGGGAGTTCCAAACGAGCAGTCTGTGTTCCGGCGAGGACAGGTGTTTCACCTGCGGCTGGT
 GCTGAACCAGCCCTACAATCCTACCACCAACTGAAACTGGAATTCAGCACAGGGCCGAATCCTAGCATC
 GCCAAACACACCCTGGTGGTGTCTGACCCGAGGACGCCCTCAGACCACTACAACCTGGCAGGCAACCCCTC
 AAAATGAGTCTGGCAAAGAGGTACAGTGGCTGTACCAGTTCGCCCAATGCCATCCTGGGCAAGTACCA
 ACTAAACGTGAAAACCTGGAAACCATCCTTAAGTCTGAAGAAAACATCCTATACCTTCTCTTCAACCCA
 TGGTGTAAAGAGGACATGGTTTTATGCCTGATGAGGACGAGCGCAAAGAGTACATCCTCAATGACACGG
 GCTGCCATTACGTGGGGCTGCCAGAAGTATCAAATGCAAACCTGGAACTTTGGTCAGTTTGGAAAAA
 TGTCTGGACTGTGCATTTCCCTGCTGACTGAGAGCTCCCTCAAGCCCACAGATAGGAGGGACCCCGTG
 CTGGTGTGCAGGGCCATGTGTGCTATGATGAGCTTTGAGAAAGGCCAGGGCGTGCATTGGGAATTGGA
 CTGGGGACTACGAAGGTGGCACAGCCCCATAACAAGTGGACAGGCAGTGCCCCGATCCTGCAGCAGTACTA
 CAACACGAAGCAGGCTGTGTGCTTTGGCCAGTGTGGGTGTTGCTGGGATCCTGACTACAGTGTGAGA
 GCGTTGGGCATCCAGCACGCGAGTGTGACAGGCTTCGATTCAGCTCACGACACAGAAAGGAACCTCACGG
 TGGACACCTATGTGAATGAGAATGGCGAGAAAAACACCAGTATGACCCACGACTGTGTCTGGAATTTCCA
 TGTGTGGACGGATGCCTGGATGAAGCGACCGGATCTGCCCAAGGGCTACGACGGCTGGCAGGCTGTGGAC
 GCAACGTCGCAGGAGCGAAGCCAGGGTGTCTTCTGTTGTGGGCCATCACCACTGACCGCCATCCGCAAAG
 GTGACATCTTTATTGTCTATGACACCAGATTCGTCTTCTCAGAAGTGAATGGTGACAGGCTCATCTGGTT
 GGTGAAGATGGTGAATGGGCAGGAGGAGTTACAGTAATTTCAATGGAGACCACAAGCATCGGGAAAAAC
 ATCAGCACCAAGGCAGTGGGCCAAGACAGGCGGAGAGATACACCTATGAGTACAAGTATCCAGAAGGCT
 CCTCTGAGGAGAGGCAGGTGATGGATCATGCCTTCTCCTTCTCAGTTCTGAGAGGGAGCACAGACGACC
 TGTAAAAGAGAACTTTCTTACATGTCCGTACAATCAGATGATGTGCTGCTGGGAAACTCTGTAAATTTT
 ACCGTGATTTCTAAAAGGAAGACCGCTGCCCTACAGAATGTCAACATCTTGGGTTCTTTGAACTACAGT
 TGTACTGTCGCAAGAAGATGGCAAACCTGTGTGACCTCAATAAGACCTCGCAGATCCAAGGTCAAGTATC
 AGAAGTGACTCTGACCTGGACTCCAAGACCTACATCAACAGCCTGGCTATATTAGATGATGAGCCAGTT
 ATCAGAGGTTTTCATCATTGCGGAAATTGTGGAGTCTAAGGAAATCATGGCCTCTGAAGTATTCACGTCTT
 TCCAGTACCCTGAGTTCTCTATAGAGTTGCCTAACACAGGCGAATTGGCCAGCTACTTGTCTGCAATTG
 TATCTTCAAGAATACCCTGGCCATCCCTTTGACTGACGTCAAGTTCTCTTTGGAAAGCCTGGGCATCTCC
 TCACTACAGACCTCTGACCATGGGACGGTGCAGCCTGGTGGAGCCATCCAATCCCAAATAAAATGCACCC
 CAATAAAAACCTGGACCCAAGAAATTTATCGTCAAGTTAAGTTCCAACAAGTGAAGAGATTAATGCTCA
 GAAGATTGTTCTCATACCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202705 representing NM_003241
 Red=Cloning site Green=Tags(s)

MMDASKELQVLHIDFLNQDNAVSHHTWEFQTSSPVFRRGQVFHLRLVLNQPLQSYHQLKLEFSTGPNPSI
 AKHTLVVLDPRTPSDHYNQATLQNESGKEVTVAVTSSPNAILGKYQLNVKTGNHILKSEENILYLLFNP
 WCKEDMVFMPDEDERKEYILNDTGCHYVGAARSIKCKPWNFGQFEKNVLDCCISLLTESSLKPTDRRDPV
 LVCRAMCAMMSFEKGQGVLIIGNWTGDYEGGTAPYKWTGSAPILQQYYNTKQAVCFGQCWVFAGILTTVLR
 ALGIPARSVTGFDSAHDTERNLTVDTYVNEGENEKITSMTHDSVWNFHVWTDAWMKRPDLPGYDQWQAVD
 ATSQERSQGVFCCGPSPLTAIRKGDIFIVYDTRFVFSEVNGDRLIWLKVMVNGQEELHVISMETTSIGKN
 ISTKAVGQDRRRDITYEYKYPEGSSEERQVMDHAFLLSSEREHRRPVKENFLHMSVQSDVLLGNVNF
 TVILKRKTAALQNVNILGSFELQLYTGKMAKCDLNKTSQIQGQVSEVTLTLDISKTYINSLAILDDEPV
 IRGFIIAEIVESKEIMASEVFTSFQYPEFSIELPNTGRIGQLLVCNCIFKNTLAIPLTDVKFSLESLSGIS
 SLQTSDHGTVQPGETIQSQIKCTPIKTPKPKFIVKLSKQVKEINAQKIVLITK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

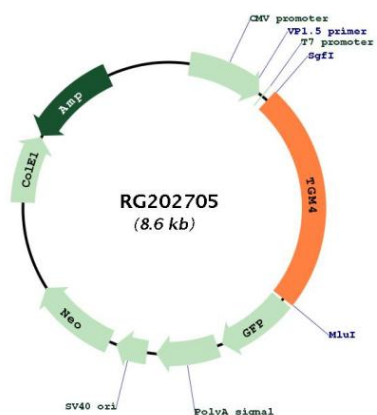


ACCN: NM_003241

ORF Size: 2052 bp

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:	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:	NM_003241.1 , NP_003232.1
RefSeq Size:	2983 bp
RefSeq ORF:	2055 bp
Locus ID:	7047
UniProt ID:	P49221
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome
Gene Summary:	Associated with the mammalian reproductive process. Catalyzes the cross-linking of proteins and the conjugation of polyamines to specific proteins in the seminal tract.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202705