

Product datasheet for **RG216216**

Thyroglobulin (TG) (NM_003235) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thyroglobulin (TG) (NM_003235) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Thyroglobulin
Synonyms:	AITD3; TGN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216216 representing NM_003235 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCCCTGGTCTGGAGATCTTACCCTGCTGGCCTCCATCTGCTGGGTGTCGGCCAATATCTTCGAGT
ACCAGGTGGATGCCAGCCCTTCGTCCTGTGAGCTGCAGAGGGAAACGGCCTTTCTGAAGCAAGCAGA
CTACGTGCCCCAGTGTGCAGAGGATGGCAGCTTCCAGACTGTCCAGTGCCAGAACGACGGCCGCTCTCG
TGGTGTGTGGGTGCCAACGGCAGTGAAGTGTGGGCAGCAGCCAGGACGGCCTGTGGCTTGTCTGT
CATTTTGTGAGTACAGAAACAGCAGATCTTACTGAGTGGCTACATTAACAGCACAGACACCTCCTACCT
CCCTCAGTGTGAGGATCAGGGGACTACGCGCCTGTTAGTGTGATGTGCAGCAGGTCCAGTGTGGTGT
GTGGACGCAGAGGGGATGGAGGTGTATGGGACCCGCCAGCTGGGGAGGCCAAAGCGATGTCCAAGGAGCT
GTGAAATAAGAAATCGTCGTCTTCTCCACGGGGTGGGAGATAAGTCAACACCCAGTGTCTGCGGAGGG
AGAGTTTATGCCTGTCCAGTGCAAATTTGTCAACACCACAGACATGATGATTTTTGATCTGGTCCACAGC
TACAACAGGTTTCCAGATGCATTTGTGACCTTCAGTTCCTTCCAGAGGAGGTTCCCTGAGGTATCTGGGT
ATTGCCACTGTGCTGACAGCCAAGGGCGGGAACGGCTGAGACAGGTTTGGAGTTGTTACTGGATGAAAT
TTATGACACCATTTTTGCTGGCCTGGACCTTCTTCCACCTTCACTGAAACCACCTGTACCGGATACTG
CAGAGACGGTTCCCGCAGTTCAATCAGTCATCTCTGGCAGATTCCGATGCCCAAAAATGTGAAGTGG
AGCGGTTTACAGCAACCAGCTTTGGTCACCCCTATGTTCCAAGCTGCCCGCGAAAATGGCGACTATCAGGC
GGTGCAGTGCCAGACGGAAGGGCCCTGCTGGTGTGTGGACGCCAGGGGAAGGAAATGCATGGAACCCGG
CAGCAAGGGGAGCCGCACTTTGTGCTGAAGGCCAATCTTGTGCCTCCGAAAGGCAGCAGGCCTTGTCCA
GACTCTACTTTGGGACCTCAGGCTACTTCAGCCAGCACGACCTGTTCTTCTTCCAGAGAAAAGATGGGC
CTCTCAAAGAGTAGCCAGATTTGCCACATCCTGCCACCCACGATCAAGGAGCTCTTTGTGGACTCTGGG
CTTCTCCGCCAATGGTGGAGGGACAGACCAACAGTTTTTCTGTCTCAGAAAATCTTCTCAAAGAAGCCA
TCCGAGCAATTTTTCCCTCCGAGGGCTGGCTCGTCTTGCCTTCAGTTTACCACCAACCCAAAGAGACT
CCAGCAAAACCTTTTTGGAGGAAATTTTTGGTGAATGTTGGCCAGTTAACTTGTCTGGAGCCCTTGGC



[View online >](#)

ACAAGAGGCACATTTAACTTCAGTCAATTTTTCCAGCAACTTGGTCTTGCAAGCTTCTTGAATGGAGGGA
 GACAAGAAGATTTGGCCAAGCCACTCTCTGTGGGATTAGATTCAAATTTCCACAGGAACCCCTGAAGC
 TGCTAAGAAGGATGGTACTATGAATAAGCCAAGTGTGGGAGCTTTGGCTTTGAAATTAACCTACAAGAG
 AACCAAAATGCCCTCAAATTCCTTGCTCTCTCTGGAGCTTCCAGAATTCCTTCTCTTCTTGAACATG
 CTATCTCTGTGCCAGAAGATGTGGCAAGAGATTTAGGTGATGTGATGGAAACGGTACTCAGCTCCAGAC
 CTGTGACAGACACCTGAAAGGCTATTTGTCCCATCATGCACGACAGAAGGAAGCTATGAGGATGTCCAA
 TGCTTTTCCGGAGAGTGGTGTGTGAATTCCTGGGGCAAAGAGCTTCCAGGCTCAAGAGTCAGAGGTG
 GACAGCCAAGGTGCCCCACAGACTGTGAAAAGCAAAGGGCTCGCATGCAAAGCCTCATGGGACGCCAGCC
 TGCTGGCTCCACCTTGTTGTCCCTGCTTGTACTAGTGAGGGACATTTCTGCCTGTCCAGTGTCTCAAC
 TCAGAGTGCTACTGTGTTGATGTGAGGGTCAGGCCATTCTGGAAGTCAAGTGAATAGGGAAGCCCA
 AGAAATGCCCCACGCCCTGTCAATTACAGTCTGAGCAAGCTTTCTCAGGACGGTGCAGGCCCTGCTCTC
 TAACTCCAGCATGCTACCCACCTTTCCGACACCTACATCCACAGTGCAGCACCAGTGGGACGTGGAGA
 CAAGTGAATGAATGGGCTCCTGAGCAGGTCTTCGAGTTGTACCAACGATGGGAGGCTCAGAACAAGG
 GCCAGGATCTGACGCCTGCCAAGCTGCTAGTGAAGATCATGAGCTACAGAGAAGCAGCTTCCGAAACTT
 CAGTCTCTTTATCAAAGTCTGTATGAGGCTGGCCAGCAAGATGTCTTCCCGGTGCTGTACAATACCTT
 TCTCTGCAAGATGTCCACTAGCAGCACTGGAAGGGAAACGGCCCCAGCCAGGGAGAATATCTCTCTGG
 AGCCCTACCTCTTCTGGCAGATCTAAATGGCCAAGTCAAGCAATACCCGGGGTCTACTCAGACTTCAG
 CACTCCTTTGGCACATTTGATCTTCGAACTGCTGGTGTGTGGATGAGGCTGGCCAAGAAGTGGAAAGGA
 ATGCGGTCTGAGCCAAGCAAGCTCCCAACATGTCTGGCTCCTGTGAGGAAGCAAAGTCCGTGTACTGC
 AGTTTCATTAGGAAAACGGAAGAGATTGTTTCAGCTTCCAACAGTTCTCGGTTCCCTCTGGGGGAGAGTTT
 CCTGGTGGCCAAGGGAATCCGGCTGAGGAATGAGGACCTCGGCCCTTCTCCGCTCTTCCCGCCCCGGAG
 GCTTTCGCGGAGCAGTTTCTGCGTGGGAGTGATTACGCCATTGCCTGGCGGCTCAGTCTACCTTAAGCT
 TCTATCAGAGACGCGCTTTTCCCGGACGACTCGGCTGGAGCATCCGCCCTTCTGCGGTGGGGCCCTA
 CATGCCACAGTGTGATGCGTTTGGAAAGTTGGGAGCCTGTGCAGTGCCACGCTGGGACTGGGCACTGTGG
 TGTGTAGATGAGAAAGGAGGTTTCATCCCTGGCTCACTGACTGCCCGCTCTCTGCAGATTCCACAGTGCC
 CGACAACCTGCGAGAAATCTCGAACAGTGGGCTGCTTTCCAGTTGAAAACAGGCTAGATCCCAAGAAAA
 CCCATCTCCAAAAGACCTGTTCTGCCAGCCTGCCTAGAAAACAGGAGAGTATGCCAGGCTGCAGGCATCG
 GGGGCTGGCACCTGGTGTGTGGACCCTGCATCAGGAGAAGAGTTGCGGCCTGGCTCGAGCAGCAGTGCCC
 AGTGCCCAAGCCTCTGCAATGTGCTCAAGAGTGGAGTCTCTCCAGGAGAGTCAAGCCAGGCTATGTCCC
 AGCCTGCAGGGCAGAGGATGGGGCTTTTCCCCAGTGAATGTGACCAGGCCAGGGCAGCTGCTGGTGT
 GTCATGGACAGCGGAGAAGAGGTGCTGGGACGCGGTGACCAGGGGCCAGCCCGCTGTGAGAGCCCGC
 GGTGTCCGCTGCCATTCAACGCGTGGGAGTGGTTGGTGAACAATCCTGTGTGAGACAATCTCGGGCCC
 CACAGGCTCTGCCATGCAGCAGTGCCAATTGCTGTGCCGCGAGGGCTCCTGGAGCGTGTTCACACAGGG
 CCATTGATATGTAGCCTGGAGAGCGGACGCTGGGAGTCAAGCTGCCTCAGCCCCGGGCCTGCCAACGGC
 CCCAGCTGTGGCAGACCATCCAGACCCAAGGGCACTTTAGCTCCAGCTCCCGCCGGGCAAGATGTGCA
 TGCTGACTACGCGGATTTGCTGCAGACTTTCCAGGTTTTCATATTGGATGAGCTGACAGCCCGCGGCTTC
 TGCCAGATCCAGGTGAAGACTTTTGGCACCTGGTTTCCATTCTGTCTGCAACAACCTCTGTGCAGG
 TGGGTTGTCTGACCAGGGAGCGTTTAGGAGTGAATGTTACATGAAAATCACGGCTTGAGGACATCCAGT
 GGCTTCTCTTCTGACTTACATGACATTGAGAGGCCTTGGTGGGCAAGGATCTCCTTGGGCGCTTCA
 GATCTGATCCAGAGTGGCTCATTCCAGCTTCTGACTTCAAGACGTTCCAGCGGAAACCATCCGCT
 TCTCCAAGGGGACCCTTTGGCACCTCTCCAGGACATGGTTTGGGTGCTCGGAAGGATTCTACCAAGT
 CTTGACAAGTGAAGCCAGTCAAGGACGACTGGGATGCGTTAAGTGTCTGAAGGAAGCTATTCCCAAGAT
 GAGGAATGCATTCCTTGTCTGTGGATTCTACCAAGAACAGGCAGGGAGCTTGGCCTGTGTCCCATGTC
 CTGTGGGAGAACGACCATTTCTGCTGGAGCTTTCAGCCAGACTCACTGTGTCACTGACTGTGAGAGGAA
 CGAAGCAGGCCTGCAATGTGACCAGAATGGCCAGTATCGAGCCAGCCAGAAGGACAGGGGACAGTGGGAAG
 GCCTTCTGTGTGGACGGGAGGGGCGGAGGCTGCCATGGTGGGAAACAGAGGCCCTCTTGAGGACTCAC
 AGTGTGTTGATGATGCAGAAGTTTGAAGAAGTTCAGAATCAAAGGTGATCTTCGACGCCAATGCTCTGT
 GGCTGTGAGATCCAAAGTTCTGATTCTGAGTTCCCCGTGATGCAGTGTGACAGATTGCACAGAGGAC
 GAGGCCTGCAGCTTCTTACCGTGTCCACGACGGAGCCAGAGATTTCTGTGATTCTATGCTTGGACAA
 GTGACAATGTTGCCTGCATGACTTCTGACCAGAAAACGAGATGCACTGGGGAACTCAAAGGCCACCAGCTT
 TGGAAAGTCTTCCGCTGCCAGGTGAAAGTGAAGGAGCCATGGTCAAGATTTCTCCAGCTGTGATTTGAAAAAG
 GGCCAAGGATCCACCACAACACTTCAGAAAACGCTTTGAACCCACTGGTTTCCAAAACATGCTTCTGGAT

TGTACAACCCATTGTGTTCTCAGCCTCAGGAGCCAATCTAACCGATGCTCACCTTTCTGTCTTCTTGC
 ATGCGACCGTGATCTGTGTTGCGATGGCTTCGTCTCACACAGGTTCAAGGAGGTGCCATCATCTGTGGG
 TTGCTGAGCTCACCCAGTGCCTGCTTTGTAATGTCAAAGACTGGATGGATCCCTCTGAAGCCTGGGCTA
 ATGCTACATGTCTGGTGTGACATATGACCAGGAGAGCCACCAGGTGATATTGCGTCTTGGAGACCAGGA
 GTTCATCAAGAGTCTGACACCCTTAGAAGGAACCAAGACACCTTTACCAATTTTCAGCAGGTTTATCTC
 TGGAAAGATTCTGACATGGGGTCTCGCCCTGAGTCTATGGGATGTAGAAAAGACACAGTGCCAAGGCCAG
 CATCTCCAACAGAAGCAGGTTTGACAACAGAACCTTTTCCCCTGTGGACCTCAACCAGGTCATTGTCAA
 TGGAAATCAATCACTATCCAGCCAGAAGCACTGGCTTTTCAAGCACCTGTTTTTCAGCCCAGCAGGCAAAC
 CTATGGTGCCTTTCTCGTTGTGTCAGGAGCACTTTTCTGTGAGCTCGCAGAGATAACAGAGAGTGCAT
 CCTTGTACTTCACCTGCACCCTCTACCCAGAGGCACAGGTGTGTGATGACATCATGGAGTCCAATGCCCA
 GGGCTGCAGACTGATCCTGCCTCAGATGCCAAAGGCCCTGTTCCGGAAGAAAGTTATACTGGAAGATAAA
 GTGAAGAACTTTTACACTCGCCTGCCGTTCCAAAACTGATGGGGATATCCATTAGAAAATAAAGTGCCCA
 TGTCTGAAAAATCTATTTCTAATGGGTTCTTTGAATGTGAACGACGGTGCATGCGGACCATGCTGCAC
 TGGCTTTGGATTCTAAATGTTTCCAGTTAAAAGGAGGAGAGGTGACATGTCTCACTCTGAACAGCTTG
 GGAATTCAGATGTGACGTGAGGAGAATGGAGGAGCCTGGCGCATTTTGGACTGTGGCTCTCCTGACATTG
 AAGTCCACACCTATCCCTTCGGATGGTACCAGAAGCCATTGCTCAAAATAATGCTCCAGTTTTTGCC
 TTTGGTTGTTCTGCCTTCCCTCACAGAGAAAGTGTCTCTGGACTCGTGGCAGTCCCTGGCCCTCTTTCA
 GTGGTTGTTGATCCATCCATTAGGCACTTTGATGTTGCCATGTCAGCACTGCTGCCACCAGCAATTTCT
 CTGCTGTCCGAGACCTCTGTTTGTCCGAATGTTCCCAACATGAGGCTGTCTCATCACCCTCTGCAAAAC
 CCAACCTGGGGCTGTGAGATGTATGTTCTATGCTGATACTCAAAGCTGCACACATAGTCTGCAGGGTCAG
 AACTGCCGACTTCTGCTTCGTAAGAGGCCACCACATCTACCGAAGCCAGGAATCTCTGCTCAGCT
 ATGAGGCATCTGTACCTTCTGTGCCATTTCCACCCATGGCCGGCTGCTGGCAGGTCCCAGGCCATCCA
 GTGGGTACCTCATGGAAGCAAGTGGACAGTTCCTTGGAGTTCATATGCTGCCCGCCCTGGCAGAG
 AGGCGCTTCCAGGCACCAGGCCCTTGAACCTGGACAGGCTCCTGGGATGCCAGCAAGCCAAAGGCCAGCT
 GCTGGCAGCCAGGCACCAGAATCCACGCTCTCCTGGAGTCAGTGAAGATTGTTTGTATCTCAATGTGTT
 CATCCCTCAGAATGTGGCCCTAACCGCTCTGTGCTGGTGTCTTCCACAACACCATGGACAGGGAGGAG
 AGTGAAGGATGGCCGGCTATCGACGGCTCCTTCTGGCTGCTGTTGGCAACCTCATCGTGGTCACTGCCA
 GCTACCGAGTGGGTGCTTCCGGTCTCTGAGTCTGGGTCCGGAGAGGTGAGTGGCAACTGGGGCTGCT
 GGACCAGTGGCGCTGACCTGGGTGCAGACCACATCCGAGGATTTGGCGGGACCTCGGCGCGTG
 TCCCTGGCAGCAGACCGTGGCGGGCTGATGTGGCCAGCATCCACCTTCTCACGGCCAGGGCCACCACT
 CCCAATTTTCCGAGAGCTGTGCTGATGGGAGGCTCCGCACTCTCCCGGCCCGCTCATCAGCCATGA
 GAGGGCTCAGCAGCAGGCAATTGCTTTGGCAAAGGAGGTGAGTTCGCCCATGTATCCAGCCAAGAAGTG
 GTGCTCCTGCCTCCGCCAGAAGCCTGCCAATGCTCTCAATGATGCCAGACCAAGCTCCTGGCCGTGAGTG
 GCCCTTCCACTACTGGGTCTGTGATCGATGGCCACTTCTCCTCGTGAGCTCCAGCCAGAGCACTGAA
 GAGGTCTTATGGGTAGAGGTGATCTGCTCATTGGGAGTTCAGGACGACGGGCTCATCAACAGAGCA
 AAGGCTGTGAAGCAATTTGAGGAAAGTCGAGGCCGGACCAGTAGCAAAACAGCCTTTTACCAGGCACTGC
 AGAATTCTCTGGGTGGCGAGGACTCAGATGCCCGCTCGAGGCTGCTGCTACATGGTATTACTCTCTGGA
 GCACTCCACGGATGACTATGCCTCCTTCTCCCGGGCTCTGGAGAATGCCACCCGGGACTACTTTATCATC
 TGCCCTATAATCGACATGGCCAGTGCCTGGGCAAAGAGGGCCGAGGAAACGCTTTCATGTACCATGCTC
 CTGAAAACCTACGCCATGGCAGCCTGGAGCTGCTGGCGGATGTTAAGTTTGCCTTGGGGCTTCCCTTCTA
 CCCAGCCTACGAGGGCAGTTTTCTCTGGAGGAGAAGAGCCTGTGCTGAAAATCATGCAGTACTTTTCC
 CACTTCATCAGATCAGGAAATCCCACTACCCTTATGAGTTCTCACGGAAAGTACCACATTTGCAACCC
 CCTGGCCTGACTTTGTACCCCGTCTGGTGGAGAGAACTACAAGGAGTTCAGTGAGCTGCTCCCAATCG
 ACAGGGCCTGAAGAAAGCCGACTGCTCCTTCTGGTCCAAGTACATCTCGTCTCTGAAGACATCTGCAGAT
 GGAGCCAAGGGCGGCAGTCAGCAGAGAGTGAAGAGGAGGAGTTGACGGCTGGATCTGGGCTAAGAGAAG
 ATCTCCTAAGCCTCCAGGAACAGGCTCTAAGACCTACAGCAAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG216216 representing NM_003235
 Red=Cloning site Green=Tags(s)

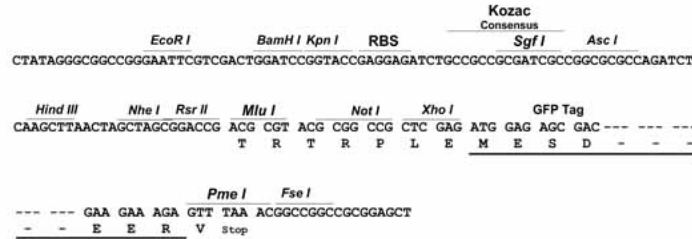
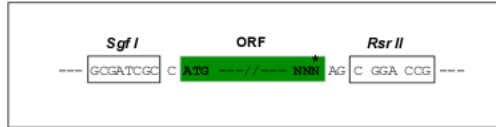
MALVLEIFTLLASICWVSANIFEYQVDAQPLRPELQRETAFLKQADYVPQCAEDGSFQTVQCQNDGRSC
 WCVGANGSEVLGSRQGRPVACL SFCQLQKQIILL SGYINSTDTSYLPQCQDSGDYAPVQCQDVQVQCWC
 VDAEGMEVYGTROQLGRPKRCPRSCEIRNRLLHGVGDKSPPQCSAEGEFMPVQCKFVNTTDMMIFDLVHS
 YNRFDAFVTFSSFRFRPEVSGYCHCADSQGRELAETGLELLDEIYDTIFAGLDLPSTFTETTLYRIL
 QRRFLAVQSVISGRFRCPKCEVERFTATSFGHYPVPSRNGDYQAVQCQTEGPCWCVDAQGKEMHGTR
 QQGEPPSCAEGQSCASERQQALSRLYFGTSGYFSQHDLFSSPEKRWASPRVARFATSCPPTIKELFVDSG
 LLRPMVEGQSQQFSYSENLLKEAIRAIFPSRGLARLALQFTTNPKRLQQNLFGGKFLVNVGQFNLSGALG
 TRGTFFNFQQFQQLGLASFLNGGRQEDLAKPLSVGLDNSSTGTPEAAKKGDMNKPTVGSFGFEINLQE
 NQNALKFLASLLELPEFLLFLQHAISVPEDVARDLGDVMTVLSSTQCEQTPERLFPVPSCTTEGSYEDVQ
 CFGSEGCWCVNSWGKELPGSRVGGQPRCPTDCEKQARMQSLMGSQPAGSTLFPVACTSEGHFLLPVQCFN
 SECYCVDAEGQAIPGTRSAIGPKKCTPCQLQSEQAFRLRTVQALLSNSSMLPTLSDTYIPQCSTDGQWR
 QVQCNGPPEQVFELYQRWEAQNKQDLPKALLVKIMSYREAASGNFLFIQSLYEAQQDVFVPLSQYP
 SLQDVPPLAALEGKRPQPRENILLEPYLFWQILNGQLSQYPGSYSDSTPLAHFDLRNCWCVDEAGQLEEG
 MRSEPSKLPCTPGSCEEAKLRVLQFIRETEEIVSASNSRFPPLGESFLVAKGIRLRNEDLGLPPLFPPRE
 AFAEQFLRGSDYAIRLAAQSTLSFYQRRRFPDSDSAGASALLRSGPYMPQCDAFGSWEPVQCHAGTGHCW
 CVDEKGGFIPGSLTARSLQIPQCPTTCEKSRSSGLLSSWKQARSQENPSPKDLFVPACLETGEYARLQAS
 GAGTWCVDPASGEELRPGSSSAQCPSLCNVLSKSVLRRVSPGYVPACRAEDGGFSPVQCDQAQGCWC
 VMDSGEEVPGTRVTVGGQPACEPRCPLPFNASEVVGTTILCETISGPTGSAMQQCQLLCRQGSWSVFPFG
 PLICSLSEGRWESQLPQPRACQRPQLWQTIQTQGHFQLQLPPGKMCADYADLLQTFQVFIIDELTARGF
 CQIQVKTFGTLSIPVCNNSVQVGLTRERLGVNVTWKSRLIEDIPVASLPDLHDIERALVGKDLLGRFT
 DLIQSGSFQLHLDLSTKTFPAETIRFLQGDHFGTSPRTWFGCSEGFYQVLTSEASQDGLGCVKCEPGSYSD
 EECIPCPVGFYQEQAGSLACVPCPVGRTTISAGAFSQTHTCVDTCQRNEAGLQCDQNGQYRASQKDRGSGK
 AFCVDGEGRRLLPWWETEAPLEDSQCLMMQKFEKVPESKVIIFDANAPVAVRSKVPDSEFPVMQCLTDCTED
 EACSFVSTTEPEISCDFYAWTSDNVACMTSDQKRDALGNSKATSFGLRQVQVVRSHGQDSPAAYLKK
 GGSTTTLQKRFEPGQNLGSLYNPIVFSASGANLTAHLFCLLACDRDLCCDGFVLTVQGGAIICG
 LLSSPSVLLCNVKDWMDPSEAWANATCPGVTYDQESHQVILRLGDQEFIKSLTPLEGTQDTFTNFQQVYL
 WKSDMGRSPESMGCRKDTVPRPASPTTEAGLTTELFSPVDLNQVI VNGNQLSSQKHWLFKHLFSAQQAN
 LWCLSRCVQEHFQCLAEITESASLYFTCTLYPEAQVCDIMESNAQGCRLILPQMPKALFRKKVILEDK
 VKNFYTRLPFQKLMGISIRNKVPMSEKISNGFFECERRCDADPCCTGFGLNVSQKGGEVCTLNLNL
 GIQMCSEENGGAWRILDCGSPDIEVHTYFPGWYQKPIAQNNAPSFCLVVLPSL TEKVSLSWSQSLALSS
 VVVDPSIRHFDVAHVSTAATSNSAVRDLCLSECSQHEACLITTLTQTPGAVRCMFYADTQSCHTSLQGG
 NCRLRLREEATHIYRKPGISLLSYEASVSPVPISTHGRLGRSQAIVGTSWKQVDQFLGVPYAAPPLAE
 RRFQAPEPLNWTGSDASKPRASCWQPGRTRTSTSPGVSEDCLYLNVFIPQNVAPNASVLFVFNHNTMDREE
 SEGWPAIDGSFLAAVGNLIVVTASYRVGVFGFLSSGSGEVSGNWGLLDQVAALTWVQTHIRGFGDPRRV
 SLAADRGADVASIHLLTARATNSQLFRAVLMGGSALSPAAVISHERAQQQAIALAKEVSCPMSSSQEV
 VSCLRQKPANVLNDAQTKLLAVSGPFHYWGPVIDGHFLREPPARALKRSLWVEVDLLIGSSQDDGLINRA
 KAVKQFEESRGRSSKTAFYQALQNSLGGEDSDARVEAAATWYYSLEHSTDDYASFRALENATRDYFII
 CPIIDMASAWAKRARGNVFMYHAPENYGHGSELELLADVQFALGLPFYAYEGQFSLEEKSLSLKIMQYFS
 HFIRSGNPNYPYEF SRKVPTFATPWPDFVPRAGGENYKEFSELLPNRQGLKKADCSFWSKYISSLKT SAD
 GAKGGQSAESEEELTAGSGLREDLLSLQEPGSKTYSK

SGPTRRRLE - GFP Tag - V

Restriction Sites: Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: NM_003235

ORF Size: 8304 bp

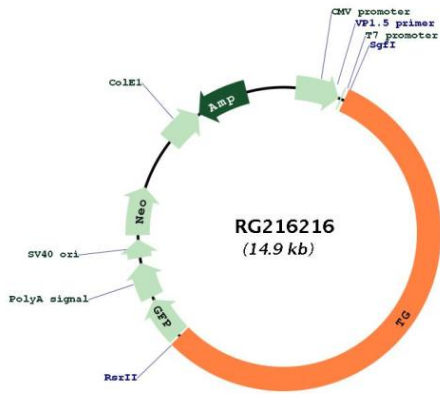
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<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_003235.5
RefSeq Size:	8453 bp
RefSeq ORF:	8307 bp
Locus ID:	7038
UniProt ID:	P01266
Cytogenetics:	8q24.22
Protein Families:	Druggable Genome
Protein Pathways:	Autoimmune thyroid disease
Gene Summary:	<p>Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thyroid gland. It acts as a substrate for the synthesis of thyroxine and triiodothyronine as well as the storage of the inactive forms of thyroid hormone and iodine. Thyroglobulin is secreted from the endoplasmic reticulum to its site of iodination, and subsequent thyroxine biosynthesis, in the follicular lumen. Mutations in this gene cause thyroid dyshormonogenesis, manifested as goiter, and are associated with moderate to severe congenital hypothyroidism. Polymorphisms in this gene are associated with susceptibility to autoimmune thyroid diseases (AITD) such as Graves disease and Hashimoto thyroiditis. [provided by RefSeq, Nov 2009]</p>

Product images:



Circular map for RG216216