

Product datasheet for **RG217048**

TSH Receptor (TSHR) (NM_001018036) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSH Receptor (TSHR) (NM_001018036) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TSHR
Synonyms:	CHNG1; hTSHR-I; LGR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217048 representing NM_001018036 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCCGGCGGACTTGCTGCAGCTGGTCTGCTGCTCGACCTGCCAGGGACCTGGCGGAATGGGGT
GTTCTGCTCCACCCTGCGAGTGCCATCAGGAGGAGGACTTCAGAGTCACCTGCAAGGATATCAACGCAT
CCCCAGCTTACCGCCAGTACGCAGACTCTGAAGCTTATTGAGACTCACCTGAGAACTATCCAAGTCAT
GCATTTTCTAATCTGCCAATATTTCCAGAATCTACGTATCTATAGATGTGACTCTGCAGCAGCTGGAAT
CACACTCTTCTACAATTTGAGTAAAGTGACTCACATAGAAATTCGGAATACCAGGAACTTAACTTACAT
AGACCCTGATGCCCTCAAAGAGCTCCCCCTCCTAAAGTTCCTTGGCATTTC AACACTGGACTTAAATG
TTCCCTGACCTGACCAAAGTTTATTCCACTGATATATTCTTTATACTTGAATTACAGACAACCCCTTACA
TGACGTCAATCCCTGTGAATGCTTTTCAGGGACTATGCAATGAAACCTTGACACTGAAGCTGTACAACAA
TGGCTTTACTTCAGTCCAAGGATATGCTTTCAATGGGACAAAGCTGGATGCTGTTTACCTAAACAAGAAAT
AAATACCTGACAGTTATTGACAAAGATGCATTTGGAGGAGTATACAGTGGACCAAGCTTGCTGCTACCTC
TTGGAAGAAAGTCCTTGTCTTTGAGACTCAGAAGGCCCCACGCTCCAGTATGCCATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217048 representing NM_001018036
Red=Cloning site Green=Tags(s)

MRPADLLQLVLLLDLPRDLGGMGCSPPCEHQEEDFRVTCKDIQRIPSLPPSTQTLKLIETHLRTIPSH
 AFSNLPNISRIYVSIDVTLQQLSHSFYNLSKVTHIEIRNTRNLTYIDPDALKELPLLKFLGIFNTGLKM
 FPDLTkVYSTDIFFILEITDNPYMTSIPVNAFQGLCNETLTLKLNNNGFTSVQGYAFNGTKLDAVYLNKN
 KYLTVIDKDAFGGVYSGPSLLLPLGRKLSFETQKAPRSSMPS

TRTRPLE - GFP Tag - V

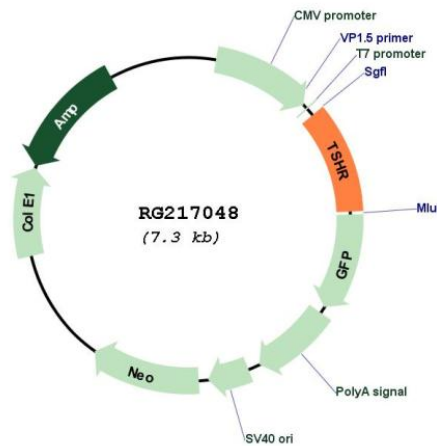
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001018036

ORF Size: 759 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:	<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_001018036.3
RefSeq Size:	1205 bp
RefSeq ORF:	762 bp
Locus ID:	7253
UniProt ID:	P16473
Cytogenetics:	14q31.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Autoimmune thyroid disease, Neuroactive ligand-receptor interaction
Gene Summary:	The protein encoded by this gene is a membrane protein and a major controller of thyroid cell metabolism. The encoded protein is a receptor for thyrothropin and thyrostimulin, and its activity is mediated by adenylate cyclase. Defects in this gene are a cause of several types of hyperthyroidism. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]