

Product datasheet for **SC119936**

TSH Receptor (TSHR) (NM_000369) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSH Receptor (TSHR) (NM_000369) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSH Receptor
Synonyms:	CHNG1; hTSHR-I; LGR3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119936 sequence for NM_000369 edited (data generated by NextGen Sequencing)

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ATGAGGCCGGCGGACTTGCTGCAGCTGGTGTCTGCTCGACCTGCCAGGGACCTGGGC
GGAATGGGGTGTTCGTCTCCACCTGCGAGTGCCATCAGGAGGAGGACTTCAGAGTCACC
TGCAAGGATATCAACGCATCCCCAGCTTACCGCCAGTACGCAGACTCTGAAGCTTATT
GAGACTCACCTGAGAACTATTCCAAGTCATGCATTTTCTAATCTGCCAATATTTCCAGA
ATCTACGTATCTATAGATGTGACTCTGCAGCAGCTGGAATCACACTCCTTCTACAATTTG
AGTAAAGTGACTCACATAGAAATTCGGAATACCAGGAACCTTAACCTACATAGACCCTGAT
GCCCTCAAAGAGCTCCCCCTCTAAAGTTCCTTGGCATTTCACACTGGACTTAAAATG
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AACCCCTACATGACGTCAATCCCTGTGAATGCTTTTCAGGGACTATGCAATGAAACCTTG
ACACTGAAGCTGTACAACAATGGCTTTACTTCAGTCCAAGGATATGCTTTCAATGGGACA
AAGCTGGATGCTTTTACCTAAACAAGAATAAATACCTGACAGTTATTGACAAAGATGCA
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ATCATGGTTGGGGCTGGGTTTGTCTCCTTCTCGCCCTGCTTCTTTGGTGGGAATA
AGTAGCTATGCCAAAGTCAGTATCTGCCTGCCATGGACACCGAGACCCCTCTTGCTCTG
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AAAATTGCCAAGAGGATGGCTGTGTTGATCTTACCGACTTCATATGCATGGCCCAATC
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CGCCAGGCTCAGGCATACCGGGGCGAGAGGTTCTCCAAGAACAGCACTGATATTGAG
GTTCAAAGGTTACCCACGACATGAGGCAGGGTCTCCACAACATGGAAGATGTCTATGAA
CTGATTGAAAACCTCCCATCTAACCCCAAAGAAGCAAGGCCAAATCTCAGAAGAGTATATG
CAAACGGTTTTGTAA
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Clone variation with respect to NM_000369.2
2181 g=>c

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000369 unedited CCCCAGTTCAGATTTTGTAAACAACCTACTATAGNNGCGCGCCGCAATTCGGCACC AGGCAGGGGTGCAGGGCGACGGCTTCGGCCGCACCGGGGCTAGCCAGGGCTGCGTGCCC GCCTCTGACCCTCAGCAGAGGTGTCTCTGGCCAGGAGGAGCTGAAGTTCTGCAGGACATT GGTCCGCCCGGACAGTCCACTCCGCGGGGACTTTCTCTGGATAAAGACCTCCTCCACA GTGGTGAGGTACAGCCCCTGGAGCCCTCCCTCTCCACCCCTCCCGCTCCCGGTCT CCTTTGGCTGGGTAACCCGAGGTGCAGAGCTGAGAATGAGGCGATTTTCGGAGGATGGA GAAATAGCCCGAGTCCCGTGGAAAATGAGGCCGCGGACTTGCTGCAGCTGGTGTCTGCT GCTCGACCTGCCAGGGACCTGGGCGGAATGGGGTGTTCGTCTCCACCCTGCGAGTGCCA TCAGGAGGAGGACTTCAGAGTCACCTGCAAGGATATTCAACGCATCCCCAGCTTACC GCC CAGTACGCAGACTCTGAAGCTTATTGAGACTCACCTGAGAACTATTCCAAGTCATGCATT TTCTAATCTGCCAATATTTCCAGAATCTACGTATCTATAGATGTGACTCTGCAGCAGCT GGAATCACACTCCTTCTACAATTTGAGTAAAGTGACTCACATAGAAATTCGGAATACCAG GAACTTAACCTACATAGACCCTGATGCCCTCAAAGAGCTCCCCCTCCTAAGTTCCTTGG CATTTTCAACACTGGACTTAACATGTTCCCTTGACCTGACCAAAGTTATCCACTGATAT ATNCTTTATACTTNGAAATACAGACGACCCTTACATGACGTCAATCCCTGTGCATGCTTT TCAGGGACTATGCCN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000369 unedited TTTGGNAGNAATATTTTCTGTTGTGAGTGCAAATTTTAGTAACAATTCTGTTGAAGTCAC TTTTCTAGGACTCTGTTTCCAAAGCAATTAGTTCAGCTATTCAAGATGAAACACATTATT TATCAAGATGTGATATTTGAAATGTCACAGGAGAGAAACACATGACAAAAGGCAACACA TTTGTTTAATTTCAATTAGTTACAAGCGAACTTCTAGGTAAGTCATGATTTTCGATGTTTA TAATATTTCTATTAAGATGTGCAGGTCTCAATGATAGTGATGAGTGGGTATGGCTGTGGA GAGATTCAGGTGAGTCCAGCAGGGACCATCTGTGGGGACCCATTAACGACACTTCACAA TCTTAAACAACAAGAGCTTTTATTTTCATGGTGTGGTTTATGAGCATTGAGAAGTAATG TCATCTCTGCTTGAGACTTTTCTAGCAGGACATTAGGGGGCTATCATCACAGGTAACCT GGAGAGTACATCTGTAGATAAAGATCCTGACTATTTTAAGTAAAGAAGAATTATTGGGGA AAAGAAGCTTTATGTCCAGTGATCAACAGGGCTGGAAAGAGCTGGCAGTTTCAGAAAAGA AGAAACCTCTCTTGACAGCTTTAGTATCATACCGTGGACTGAAATGGCAAAAATCATCC CTTAAGACAAGCGAAGTGTTTTTGAAAGTACTTTCATAGTGAAGTAGCAACTCTAATA GCCAAAATTTGCAACCATCGTTTACTCTTTTATATAAACACGAATCTGTTTTTGGCCTGA TNATTACAGCTGGGTAGATCTAGTAATAAATGAATGATTGAGATCCAGGCGAGTATGTTT ACTCAATTGAATTTTGGCTCAGACTCATTATCAAAAAGTGAACAAGGAAAAATTCCTGG GTCATGTGTCTAGGCTCCAGGACTATGATCAGCACNCTA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000369
Insert Size:	5000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_000369.2](#), [NP_000360.2](#)

RefSeq Size: 4410 bp

RefSeq ORF: 2295 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]

Transcript Variant: This variant (1) represents the longer transcript and it encodes the longer protein (isoform 1).