

Specifications:

Gene:	hTSHR
Accession:	P16473
Insert size:	2307bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

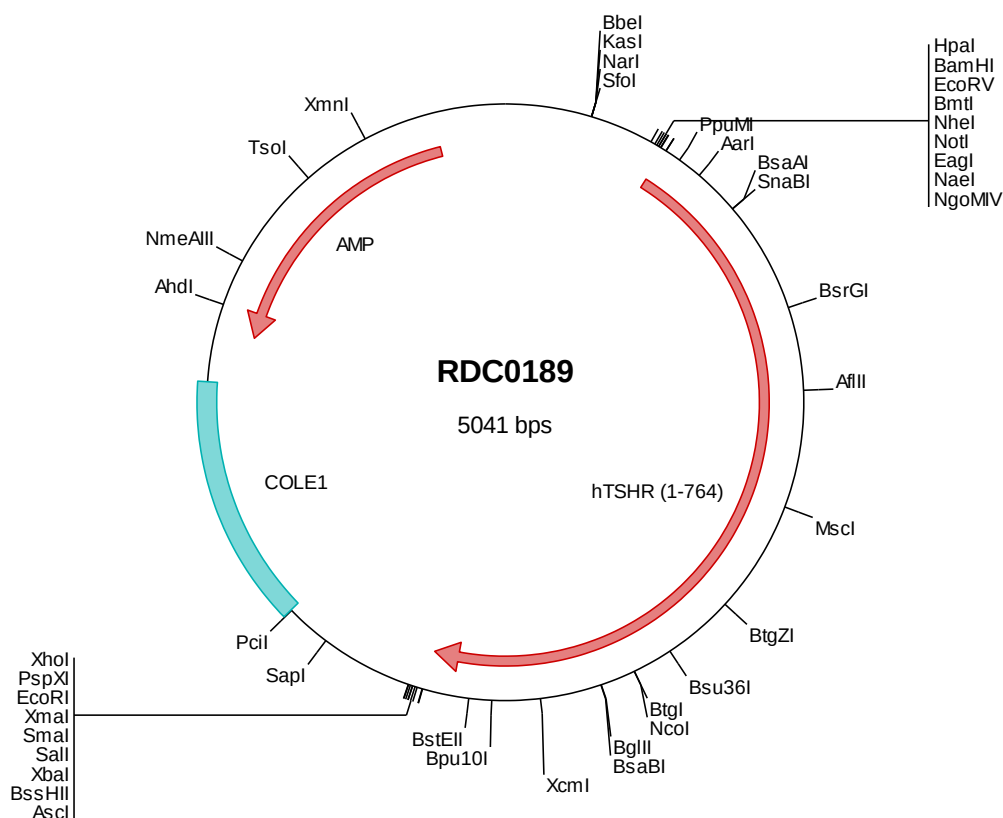
hTSHR cDNA Plasmid

TSHR thyroid stimulating hormone receptor [*Homo sapiens*]

Also known as: LGR3; CHNG1; hTSHR-I

Summary:

TSHR is a membrane protein and a major controller of thyroid cell metabolism. It is a receptor for thyrotropin and thyrostimulin, and its activity is mediated by adenylate cyclase. TSHR is expressed in the thyroid. Somatic, constitutively activating TSHR mutations and/or constitutively activating G(s)α mutations have been identified in toxic thyroid nodules (TTNs) that are the predominant cause of hyperthyroidism in iodine deficient areas. These mutations lead to TSH independent activation of the cAMP cascade resulting in thyroid growth and hormone production. Autoantibodies against TSHR are directly responsible for the pathogenesis and hyperthyroidism of Graves disease.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0189 Plasmid DNA Sequence

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201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
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> RDC0189 Translated Insert Sequence

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