

OriGene Technologies, Inc.

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Product datasheet for RG235568

TSH beta (TSHB) (NM_001277991) Human Tagged ORF Clone

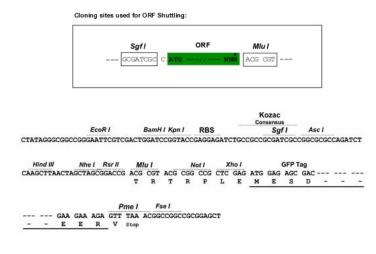
Product data:

Product Name:TSH beta (TSHB) (NM_001277991) Human Tagged ORF CloneTag:TurboGFPSymbol:TSH betaSynonyms:TSH-BETAMammalian Cell Selection:NeomycinVector:pCMV6-AC-GFP (PS100010)E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide Sequence:>RG235568 representing NM_001277991. Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGTCTCCCCAGGATATCATGGCAAACTGTTCTTCCCCAAATATGCTCTGTCC CAGGATGTTTGCACTATAGGACCTCACCAGGATATCATAGGACTGTGGCAAGTGTGGCAAGTGCTGACTATAGGACTTATAGGACTTATAGGACTGTACAGGATGCTGAGAATTATGGCAAACTGGTCGCAATTATGGCAAGTGTGGCAAGTGCCACTCACT
Symbol:TSH betaSynonyms:TSH-B; TSH-BETAMammalian Cell Selection:NeomycinSelection:pCMV6-AC-GFP (PS100010)E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide Sequence:>R6235568 representing NM_001277991. Blue=ORF_Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGCTTCGTCCGCCGCGACTCGCC ATGCTCTTTTTTGTATTCCATGCTGTCAACGGATGTTAACCAGATGCCTCATGTT GCTCCCTATTTTTGCATCATGCCGTCAGAATCGTCGAAGGATGCCCACTCCATGTT GCTCCCTATTTTTCCTATCCTGTCGCTTTAAGGACTGCAAACCGATGCCAATACTGACTATAGGACTTCATGGCAAGGATGCCCAATACTGACTATAGGACTTCATGGCAAGGATGCCAATACTGACTATAGGACTTCATGGCAAGGATGCCAATACTGACTATAGGACTTCATGGCAAGGATGCCAATACTGACTATAGGACTTCATGGCAAGGATGCCAATACTGACTATAGGACTTCATGGCAAGGAAGCCTCAATATGGCCATGCAATACTGACTATAGGACTTCATGGCCAAGGAAGG
Synonyms:TSH-B; TSH-BETAMammalian Cell Selection:NeomycinVector:pCMV6-AC-GFP (PS100010)E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide Sequence:>RG235568 representing NM_001277991. Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGAAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCCAGGAGATCGTCCCCCATGCTACCCAGGACATCGTCCCCCAGGATGCCCAACTGTTTCTTCCCCAAGAATATGCTCTGTCC CAGGATGTTTGCACATATAGGACATCATCGACCGTAGCAGACTGTAGACAGGCCAGGCAGTGCCAATATGGCCAACTGTTTCT GCTCCCTATTTTTCCTATCCTGTTCGTTCACCAAACTGTACCAGGATGCCAATACTGACTATAGGACTTCATCTAGGGCAAGTCGCAATACTGACTATATGGCC ACGCCTACCGGCCGCCGCCGCGCGCCGCGCGCGCGCGCGC
Mammalian Cell Selection:NeomycinVector:pCMV6-AC-GFP (PS100010)E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide Sequence:>RG235568 representing NM_001277991. Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGCTCCTTTTCTGTTCTTTCCCAGGATATCAATGGCCAACTGTTTCTTCCCAAATATGCTCTGTCC CAGGATGTTGCACATATAGAGACTTCATCTAAGGGCAACTGTGGCAAACTGGTTAGCAATACCAGGATGCCCACTCATTAGGGA Protein Sequence:Protein Sequence:>Peptide sequence encoded by RG235568 Blue=ORF Red=Cloning site Green=Tag(s)MLSFLFFPQDINGKLFLPKYALSQDVCTYRDFIYRTVEIPGCPLHVAPYFSYPVALSCKCGKCNTDYSD
Selection:pCMV6-AC-GFP (PS100010)E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide Sequence:>RG235568 representing NM_001277991. Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGCTCTCTTTTCCTATCAGGACAACTGTTTCTTCCCAAATATGCTCTGTCC CAGGATGTTTGCACATATAGAGACTTCACTCAGGACTGTAGAAATACCAGGATGCCCACTCCATGTT GCTCCCTATTTTTCCTATCAGGACAAACTGTTACCAGGACGCCACTCCATGTG CGCTACACTGAAGCCATCAAGACAAACTACTGTAGGCAAACCTCAGGACGCCACTCCATGTT GCTCCTATTTTTCCTATCAGGACGACAAACTACTGACCAAACCTCAGGAAGTCCTATCGGCAAGGCATTCTGCTGTC ACGCCGTACGCGGCCGCCGCGCGCGCGCGGCGGGCGGGCG
E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide Sequence:>RG235568 representing NM_001277991. Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGCATCGCC ATGCTCTCTTTTCTGTTCTTTCCCCAGGATATCAATGGCAAACTGTTTCTTCCCAAATATGCTCTGTCC CAGGATGTTTGCACATATAGAGACTTCATCAAGGACTGTAGAAATACCAGGATGCCCACTCCATGTT GCTCCCTATTTTTCCTATCCTGTTGCTTTAAGCTGTAGCAAGTGCAAATACGACTATAGTGAC TGCATACATGAAGCCATCAAGACAAACTACTGTACCAAACTCACTGAAGTGCAATACTGACTATAGTGAC TGCATACATGAAGCCATCAAGACAAACTACTGTACCAAACCTCAGAAGTCTTATCTGGTAGGATTTTCT GTC ACGCCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAACProtein Sequence:>Peptide sequence encoded by RG235568 Blue=ORF Red=Cloning site Green=Tag(s)MLSFLFFPQDINGKLFLPKYALSQDVCTYRDFIYRTVEIPGCPLHVAPYFSYPVALSCKCGKCNTDYSD
ORF Nucleotide Sequence:>RG235568 representing NM_001277991. Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGGCGCGCGCCGCGAAACTGTTTCTTCCCCAAATATGCTCTGTCC CAGGATGTTTGCACATATAGAGACTTCATCTACAGGACTGTAGAAATACCAGGATGCCCACTCCATGTT GCTCCCTATTTTCCTATCCTGTTGCTTTAAGCAGACTACAAGGACGCAAACTGTTACTGGCAAGGACTTTATCTGGTC ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAACProtein Sequence:>Peptide sequence encoded by RG235568 Blue=ORF Red=Cloning site Green=Tag(s)MLSFLFFPQDINGKLFLPKYALSQDVCTYRDFIYRTVEIPGCPLHVAPYFSYPVALSCKCGKCNTDYSD
Sequence:Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGCGCGCGCGCC ATGCTCTTTTCTGTTCTTTCCCCAGGATATCAATGGCAAACTGTTTCTCCCAAATATGCTCTGTCC CAGGATGTTTGCACATATAGAGACTTCATCACAGGACTGTAGAAATACCAGGATGCCCACTCCATGTT GCTCCCTATTTTTCCTATCCTGTTGCTTTAAGCTGTAAGTGTGGCAAAGTGCAATACTGACATAAGTGAC TGCATACATGAAGCCATCAAGACAAACTACTGTACCAAACCTCAGAAGTCTTATCTGGTAGGATTTTCT GTC ACGCCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAACProtein Sequence:>Peptide sequence encoded by RG235568 Blue=ORF Red=Cloning site Green=Tag(s)MLSFLFFPQDINGKLFLPKYALSQDVCTYRDFIYRTVEIPGCPLHVAPYFSYPVALSCKCGKCNTDYSD
GATCCGGTACCGAGGAGATCTGCCGCCGCGCGCCCC ATGCTCTCTTTTCTGTTCTTTCCCCAGGATATCAATGGCAAACTGTTTCTTCCCCAAATATGCTCTGTCC CAGGATGTTTGCACATATAGAGACTTCATCTACAGGACTGTAGAAATACCAGGATGCCCACTCCATGTT GCTCCCTATTTTTCCTATCCTGTTGCTTTAAGCTGTAAGTGTGGCAAATACCAGGATGCCCACTCCATGTT GTC ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAACProtein Sequence:>Peptide sequence encoded by RG235568 Blue=ORF Red=Cloning site Green=Tag(s)MLSFLFFPQDINGKLFLPKYALSQDVCTYRDFIYRTVEIPGCPLHVAPYFSYPVALSCKCGKCNTDYSD
Blue=ORF Red=Cloning site Green=Tag(s) MLSFLFFPQDINGKLFLPKYALSQDVCTYRDFIYRTVEIPGCPLHVAPYFSYPVALSCKCGKCNTDYSD
CIHEAIKTNYCTKPQKSYLVGFSV TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
Restriction Sites: Sgfl-Mlul



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Cloning Scheme:

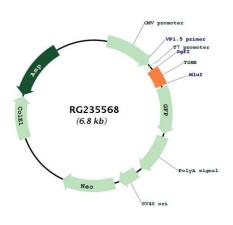


ACCN:	NM_001277991
ORF Size:	279 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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. <u>More info</u>
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).
RefSeq:	<u>NM 001277991.1, NP 001264920.1</u>
RefSeq Size:	364 bp
RefSeq ORF:	282 bp
Locus ID:	7252
UniProt ID:	<u>P01222</u>
Cytogenetics:	1p13.2
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Autoimmune thyroid disease, Neuroactive ligand-receptor interaction

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	TSH beta (TSHB) (NM_001277991) Human Tagged ORF Clone – RG235568
MW:	11.1 kDa
Gene Summary:	The four human glycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH), follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimers consisting of alpha and beta subunits that are associated noncovalently. The alpha subunits of these hormones are identical, however, their beta chains are unique and confer biological specificity. Thyroid stimulating hormone functions in the control of thyroid structure and metabolism. The protein encoded by this gene is the beta subunit of thyroid stimulating hormone. Mutations in this gene are associated with congenital central and secondary hypothyroidism and Hashimoto's thyroiditis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]

Product images:



Circular map for RG235568

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