

## Product datasheet for **SC319930**

### Thyroxine Binding Globulin (SERPINA7) (NM\_000354) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Thyroxine Binding Globulin (SERPINA7) (NM\_000354) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Thyroxine Binding Globulin  
**Synonyms:** TBG; TBGQTL  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000354.3  
 TTAACCTCCTTCCAAAAATGTCACCATTCCCTGTATCTGGTTCTCTTGGTACTTGGGCTTCA  
 TGCTACAATCCACTGTGCATCACCTGAAGGCAAAGTAACAGCCTGCCATTCATCCCAACC  
 AAATGCCACTCTCTACAAGATGTCATCCATTAATGCTGACTTTGCATTCAATCTGTACCG  
 GAGGTTCACTGTGGAGACCCAGATAAGAACATCTTCTTTTCCCTGTGAGCATTCTGCG  
 AGCTTTGGTTATGCTTTCTTTGGGCCTGCTGCAGCACCCAACTGAGATTGTGGAGAC  
 CTTGGGGTTCAACCTCACAGACTCCAATGGTAGAGATCCAGCATGGCTTCCAGCATCT  
 GATCTGTTCACTGAATTTTCAAAGAAGGAACTGGAATTGCAGATAGGAAATGCCCTCTT  
 CATTGGCAAGCATCTGAAACCACTGGCAAAGTTCTTGAATGATGTCAAGACCCTCTATGA  
 GACTGAAGTCTTTTCTACCGACTTCTCCAACATTTCTGCAGCCAAGCAGGAGATTAACAG  
 TCATGTGGAGATGCAAACCAAAGGAAAGTTGTGGGTCTAATTCAAGACCTCAAGCCAAA  
 CACCATCATGGTCTTAGTGAACATATTTCACTTTAAAGCCAGTGGGCAAATCCTTTTGA  
 TCCATCCAAGACAGAAGACAGTTCCAGCTTCTTAATAGACAAGACCACCACTGTTCAAGT  
 GCCCATGATGCACCAGATGGAACAATACTATCACCTAGTGGATATGGAATTGAACTGCAC  
 AGTTCTGCAAAATGGACTACAGCAAGAAATGCTCTGGCACTCTTTGTTCTTCCCAAGGAGG  
 ACAGATGGAGTCAGTGAAGCTGCCATGTCATCTAAAACACTGAAGAAGTGAACCGCTT  
 ACTACAGAAGGGATGGGTTGACTTGTTTGTTCCAAAGTTTTCATTTCTGCCACATATGA  
 CCTTGGAGCCACACTTTTGAAGATGGGCATTGAGCATGCCTATTCTGAAAATGCTGATTT  
 TTCTGGACTCACAGAGGACAATGGTCTGAACTTTCCAATGCTGCCATAAGGCTGTGCT  
 GCACATTGGTGAAGGAACTGAAGCTGCAGCTGTCCCTGAAGTTGAACCTTTCGGATCA  
 GCCTGAAAACACTTTCTACACCCTATTATCCAAATTGATAGATCTTTCATGTTGTTGAT  
 TTTGGAGAGAAGCACAAGGAGTATTCTTTCTAGGGAAAGTTGTGAACCAACGGAAGC  
 GTAGTTGGGAAAAAGGCCATTGGCTAATTGCACGTGTGATTGCAATGGGAAATAAATAA  
 ATAATATAGCCTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_000354
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_000354.3</a></u> , <u><a href="#">NP_000345.1</a></u>
<b>RefSeq Size:</b>	1559 bp
<b>RefSeq ORF:</b>	1248 bp
<b>Locus ID:</b>	6906
<b>UniProt ID:</b>	<u><a href="#">P05543</a></u>
<b>Cytogenetics:</b>	Xq22.3
<b>Domains:</b>	SERPIN
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Gene Summary:</b>	There are three proteins including thyroxine-binding globulin (TBG), transthyretin and albumin responsible for carrying the thyroid hormones thyroxine (T4) and 3,5,3'-triiodothyronine (T3) in the bloodstream. This gene encodes the major thyroid hormone transport protein, TBG, in serum. It belongs to the serpin family in genomics, but the protein has no inhibitory function like many other members of the serpin family. Mutations in this gene result in TGB deficiency, which has been classified as partial deficiency, complete deficiency, and excess, based on the level of serum TBG. Alternatively spliced transcript variants encoding different isoforms have been found, but the full-length nature of these variants has not been determined.[provided by RefSeq, Jun 2012]