

## Product datasheet for RC236785

### Sex Hormone Binding Globulin (SHBG) (NM\_001289115) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sex Hormone Binding Globulin (SHBG) (NM_001289115) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SHBG
Synonyms:	ABP; SBP; TEBG
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236785 representing NM_001289115 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGACCTTTGACCTACCAAGATCACAAAACCTCCTCCTCTTTGAGGTTCGAACCTGGGACCCAGAGG  
GAGTGATTTTTATGGGATACCAACCCTAAGGATGACTGGTTTATGCTGGGACTTCGAGACGGCAGGCC  
TGAGATCCAACCTGCACAATCACTGGGCCAGCTTACGGTGGGTGCTGGACCACGGCTGGATGATGGGAGA  
TGGCACCAGGTGGAAGTCAAGATGGAGGGGACTCTGTGCTGCTGGAGGTGGATGGGAGGAGGTGCTGC  
GCCTGAGACAGGTCTCTGGGCCCTGACCAGCAAACGCCATCCCATCATGAGGATTGCGCTTGGGGGGCT  
GCTCTTCCCGCTTCCAACCTTCGGTTGCCGCTGGTTCCTGCCCTGGATGGCTGCCTGCGCCGGGATTCC  
TGGCTGGACAAACAGGCCGAGATCTCAGCATCTGCCCCACTAGCCTCAGAAGCTGTGATGTAGAATCAA  
ATCCCGGGATATTTCTCCTCCAGGGACTCAGGCAGAATCAATCTCCGAGACATCCCCAGCCTCATGC  
AGAGCCCTGGGCCTTCTCTTTGGACCTGGGACTCAAGCAGGCAGCAGGCTCAGGCCACCTCCTTGCTCTT  
GGGACACCAGAGAACCCATCTTGCTCAGTCTCACCTCCAAGATCAAGAGAAGACTCTTCCACCTCTTT  
TTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC236785 representing NM\_001289115  
Red=Cloning site Green=Tags(s)

MTFDLTKITKTSSEFEVRTWDPEGVIFYGDTNPKDDWFMLGLRDRPEIQLHNNHWAQLTVGAGPRLDDGR  
 WHQVEVKMEGDSVLLLEVDGEEVLRRLRQVSGPLTSKRHPIMRIALGGLLFPASNLRLPLVPALDGCCLRRDS  
 WLDKQAEISASAPTSLRSCDVESNPGIFLPPGTQAEFNLRDIPQPHAEPWAFSLDLGLKQAAGSGHLLAL  
 GTPENPSWLSLHLQDQEKTLPLPLFA

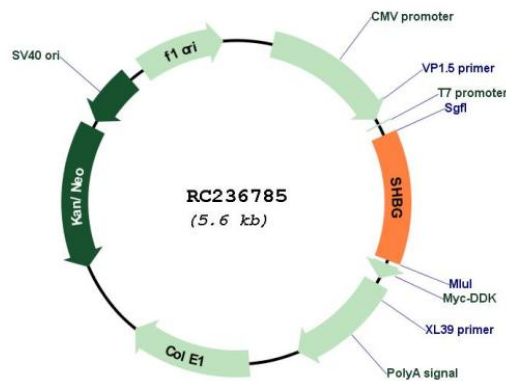
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001289115  
**ORF Size:** 705 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001289115.1</a> , <a href="#">NP_001276044.1</a>
<b>RefSeq Size:</b>	1118 bp
<b>RefSeq ORF:</b>	708 bp
<b>Locus ID:</b>	6462
<b>UniProt ID:</b>	<a href="#">P04278</a>
<b>Cytogenetics:</b>	17p13.1
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>MW:</b>	26.5 kDa
<b>Gene Summary:</b>	This gene encodes a steroid binding protein that was first described as a plasma protein secreted by the liver but is now thought to participate in the regulation of steroid responses. The encoded protein transports androgens and estrogens in the blood, binding each steroid molecule as a dimer formed from identical or nearly identical monomers. Polymorphisms in this gene have been associated with polycystic ovary syndrome and type 2 diabetes mellitus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]