

## Product datasheet for **SC335488**

### Sex Hormone Binding Globulin (SHBG) (NM\_001289114) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sex Hormone Binding Globulin (SHBG) (NM_001289114) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHBG
Synonyms:	ABP; SBP; TEBG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335488 representing NM_001289114. Blue=Insert sequence Red=Cloning site Green=Tag(s)

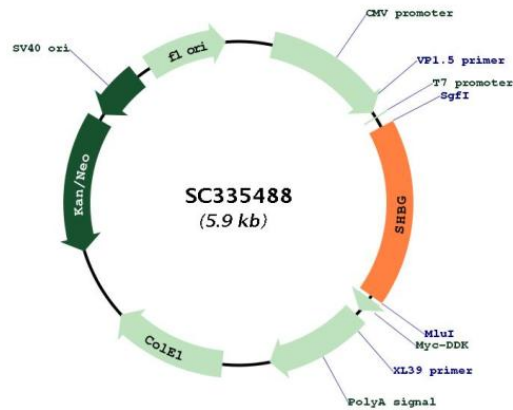
```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGACCTTTGACCTACCAAGATCACAAAACTCCTCCTCTTTGAGGTTCGAACCTGGGACCCAGAG
GGAGTGATTTTTATGGGGATACCAACCCTAAGGATGACTGGTTATGCTGGGACTTCGAGACGGCAGG
CCTGAGATCCAACCTGCACAATCACTGGGCCAGCTTACGGTGGGTGCTGGACCACGGCTGGATGATGGG
AGATGGCACCAGGTGGAAGTCAAGATGGAGGGGACTCTGTGCTGCTGGAGGTGGATGGGAGGAGGTG
CTGCGCCTGAGACAGGTCTCTGGGCCCTGACCAGCAAACGCCATCCCATCATGAGGATTGCGCTTGGG
GGGCTGCTCTTCCCGCTTCCAACCTTCGGTTGCCGCTGGTTCCCGCTGGATGGCTGCCTGCGCCGG
GATTCCTGGCTGGACAAACAGGCCGAGATCTCAGCATCTGCCCCACTAGCCTCAGAAGCTGTGATGTA
GAATCAAATCCCGGGATATTTCTCCCTCCAGGGACTCAGGCAGAAATCAATCTCCGAGACATTTCCAG
CCTCATGCAGAGCCCTGGGCTTCTCTTTGGACCTGGGACTCAAGCAGGCAGCAGGCTCAGGCCACCTC
CTTGCTCTTGGGACACCAGAGAACCCTCTTGGCTCAGTCTCCACCTCCAAGATCAAAGGTGGTGTG
TCTTCTGGGTCGGGGCCAGGGCTGGATCTGCCCTGGTCTTGGGACTCCCTCTTCAGCTGAAGCTGAGT
ATGTCCAGGGTGGTCTTGAGCCAAGGTCGAAGATGAAGGCCCTTGCCTGCCTCCCTTAGGCTGGCT
CCCCTCCTAACCTCTGGCCAAGCCTCAAGGGCGTCTCTTCTGGGGGCTTTACCAGGAGAAGACTCT
TCCACCTCTTTTTGCCTGAATGGCCTTTGGGCACAAGGTCAGAGGCTGGATGTGGACCAGGCCCTGAAC
AGAAGCCATGAGATCTGGACTCACAGCTGCCCCAGAGCCAGGCAATGGCACTGACGCTTCCCATTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001289114

**Insert Size:** 1035 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\\_001289114.1](#)

**RefSeq Size:** 1189 bp

**RefSeq ORF:** 1035 bp

**Locus ID:** 6462

**UniProt ID:** [P04278](#)

**Cytogenetics:** 17p13.1

**Protein Families:** Druggable Genome, Secreted Protein

**MW:** 37.5 kDa

**Gene Summary:** 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]  
Transcript Variant: This variant (6) differs in the 5' UTR, lacks part of the 5' coding region, and uses a downstream start codon, compared to variant 1. The encoded isoform (5) has a shorter N-terminus, compared to isoform 1. Both variants 5 and 6 encode the same isoform.