

Product datasheet for RC237202

Sex Hormone Binding Globulin (SHBG) (NM_001289116) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Sex Hormone Binding Globulin (SHBG) (NM_001289116) 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: | >RC237202 representing NM_001289116 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGATACCAACCCTAAGGATGACTGGTTTATGCTGGGACTTCGAGACGGCAGGCCTGAGATCCA
GCACAATCACTGGGCCAGCTTACGGTGGGTGCTGCGCCTGAGACAGGTCTCTGGGCCCTGACCAGCAA
ACGCCATCCCATCATGAGGATTGCGCTTGGGGGCTGCTCTCCCGCTTCCAACCTTCGGTTGCCGCTG
GTTCTGCCCTGGATGGCTGCCTGCGCCGGGATTCCTGGCTGGACAAACAGGCCGAGATCTCAGCATCTG
CCCCACTAGCCTCAGAAGCTGTGATGTAGAATCAAATCCCGGGATATTTCTCCCTCCAGGGACTCAGGC
AGAATTCAATCTCCGAGACATTCGCCAGCCTCATGCAGAGCCCTGGGCCTTCTTTGGACCTGGGACTC
AAGCAGGCAGCAGGCTCAGGCCACCTCCTTGTCTTGGGACACCAGAGAACCCATCTTGGCTCAGTCTCC
ACCTCAAAGATCAAAGGTGGTGTGTCTTCTGGGTCGGGGCCAGGGCTGGATCTGCCCTGGTCTTGGG
ACTCCCTCTTCAGCTGAAGCTGAGTATGTCCAGGGTGGTCTTGGCCAAGGTCGAAGATGAAGGCCCTT
GCCCTGCCTCCCTTAGGCCTGGCTCCCTCCTAACCTCTGGCCAAGCCTCAAGGGCGTCTCTTCTGG
GGGCTTTACCAGGAGAAGACTCTCCACCTCTTTTGCCTGAATGGCCTTGGGCACAAGGTCAGAGGCT
GGATGTGGACCAGGCCCTGAACAGAAGCCATGAGATCTGGACTCACAGCTGCCCCAGAGCCAGGCAAT
GGCACTGACGCTTCCCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237202 representing NM_001289116
Red=Cloning site Green=Tags(s)

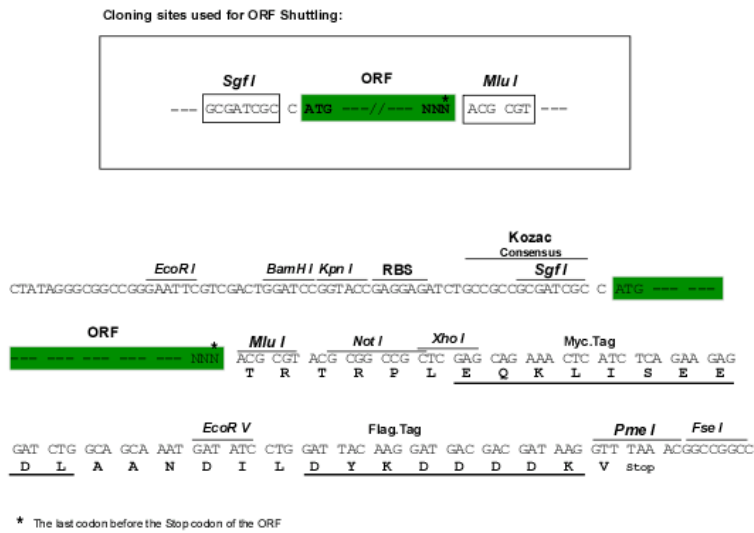
MGIPTLRMTGLCWFETAGLRSNCTITGPSLRWVLRRLRQVSGPLTSKRHPIMRIALGGLLFPASNLRLPL
 VPALDGLRRDSDLKQAEISASAPTSRLRSCDVESNPGIFLPPGTQAEFNLRDIPQPHAEPWAFSLDLGL
 KQAAGSGHLLALGTPENPSWLSLHLQDQKVVLSSGSGPGLDLPLVLGLPLQLKLSMSRVVLSQGSKMKAL
 ALPPLGLAPLLNLWAKPQGRLFLGALPGEDSSTSFCLNGLWAQQQRLLDQALNRSHEIWITHSCPQSPGN
 GTDASH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

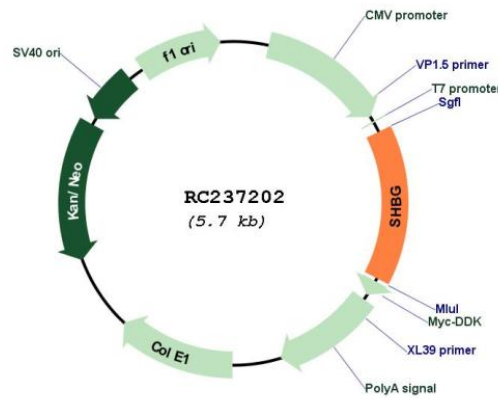
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289116

ORF Size: 858 bp

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| 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. More info |
| 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). |
| Reconstitution Method: | <ol style="list-style-type: none">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_001289116.2 |
| RefSeq Size: | 1241 bp |
| RefSeq ORF: | 861 bp |
| Locus ID: | 6462 |
| UniProt ID: | P04278 |
| Cytogenetics: | 17p13.1 |
| Protein Families: | Druggable Genome, Secreted Protein |
| MW: | 31.2 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] |