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Product datasheet for RC237593

Sex Hormone Binding Globulin (SHBG) (NM_001289113) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sex Hormone Binding Globulin (SHBG) (NM_001289113) 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:	>RC237593 representing NM_001289113 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACCTTTGACCTCACCAAGATCACAAAAACCTCCTCCTCCTTTGAGGTTCGAACCTGGGACCCAGAGG GAGTGATTTTTTATGGGGATACCAACCCTAAGGATGACTGGTTTATGCTGGGACTTCGAGACGGCAGGCC TGAGATCCAACTGCACAATCACTGGGCCCAGCTTACGGTGGGTGCTGGACCACGGCTGGATGATGGGAGA TGGCACCAGGTGGAAGTCAAGATGGAGGGGGACTCTGTGCTGCTGGAGGTGGATGGGGAGGAGGTGCTGC GCCTGAGACAGGTCTCTGGGCCCCTGACCAGCAAACGCCATCCCATCATGAGGATTGCGCTTGGGGGGCT GCTCTTCCCCGCTTCCAACCTTCGGTTGCCGCTGGTTCCTGCCCTGGATGGCTGCCTGCGCCGGGATTCC TGGCTGGACAAACAGGCCGAGATCTCAGCATCTGCCCCCACTAGCCTCAGAAGCTGTGATGTAGAATCAA ATCCCGGGATATTTCTCCCTCCAGGGACTCAGGCAGAATTCAATCTCCGAGACATTCCCCAGCCTCATGC AGAGCCCTGGGCCTTCTCTTTGGACCTGGGACTCAAGCAGGCAGCAGGCTCAGGCCACCTCCTTGCTCTT GGGACACCAGAGAACCCATCTTGGCTCAGTCTCCACCTCCAAGATCAAAAGGTGGTGTTGTCTTCTGGGT CGGGGCCAGGGCTGGATCTGCCCCTGGTCTTGGGACTCCCTCTTCAGCTGAAGCTGAGTATGTCCAGGGT GGTCTTGAGCCAAGGGTCGAAGATGAAGGCCCTTGCCCTGCCTCCCTTAGGCCTGGCTCCCCTCCTTAAC CTCTGGGCCAAGCCTCAAGGGCGTCTCTTCCTGGGGGCTTTACCAGGAGAAGACTCTTCCACCTCTTTTT GCCTGAATGGCCTTTGGGCACAAGGTCAGAGGCTGGATGTGGACCAGGCCCTGAACAGAAGCCATGAGAT CTGGACTCACAGCTGCCCCCAGAGCCCAGGCAATGGCACTGACGCTTCCCAT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

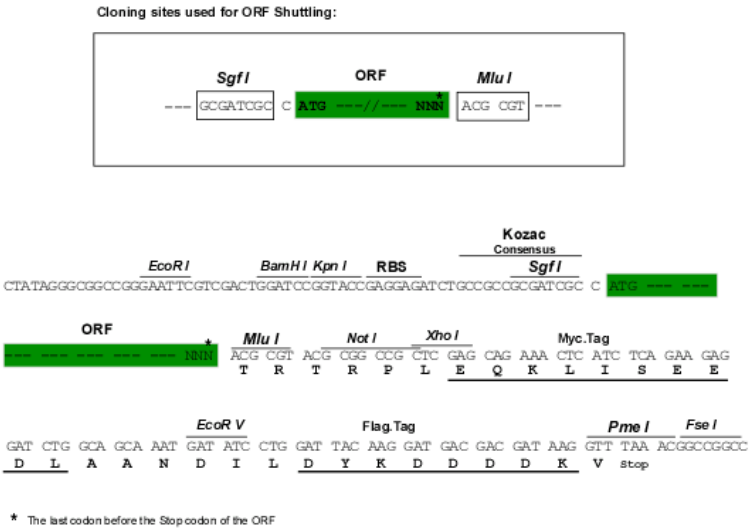
>RC237593 representing NM_001289113
Red=Cloning site Green=Tags(s)

MTFDLTKITKTSSSFEVRTWDPEGVIFYGDTNPKDDWFMLGLRDGRPEIQLHNHWAQLTVGAGPRLDDGR
WHQVEVKMEGDSVLLEVDGEEVLRLRQVSGPLTSKRHPIMRIALGGLLFPASNLRLPLVPALDGCLRRDS
WLDKQAEISASAPTSLRSCDVESNPGIFLPPGTQAEFNLRDIPQPHAEPWAFSLDLGLKQAAGSGHLLAL
GTPENPSWLSLHLQDQKVVLSSGSGPGLDLPLVLGLPLQLKLSMSRVVLSQGSKMKALALPPLGLAPLLN
LWAKPQGRLFLGALPGEDSSTSFCLNGLWAQGQRLDVDQALNRSHEIWTHSCPQSPGNGTDASH

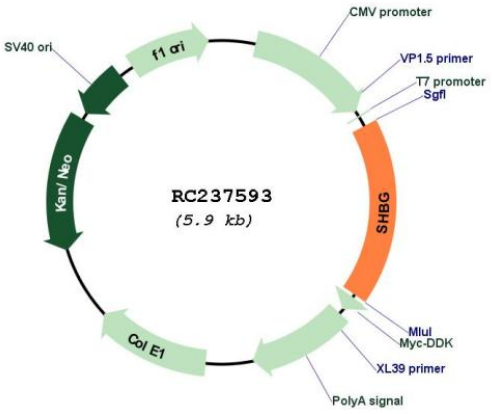
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289113

ORF Size: 1032 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. 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:	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_001289113.1, NP_001276042.1
RefSeq Size:	1326 bp
RefSeq ORF:	1035 bp
Locus ID:	6462
UniProt ID:	P04278
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome, Secreted Protein
MW:	37.9 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]