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Product datasheet for SC334679

Sex Hormone Binding Globulin (SHBG) (NM_001289115) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sex Hormone Binding Globulin (SHBG) (NM_001289115) 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:	>NCBI ORF sequence for NM_001289115, the custom clone sequence may differ by one or more nucleotides

ATGACCTTTGACCTCACCAAGATCACAAAAACCTCCTCCTCCTTTGAGGTTCGAACCTGGGACCCAGAGG
GAGTGATTTTTTATGGGGATACCAACCCTAAGGATGACTGGTTTATGCTGGGACTTCGAGACGGCAGGCC
TGAGATCCAACTGCACAATCACTGGGCCCAGCTTACGGTGGGTGCTGGACCACGGCTGGATGATGGGAGA
TGGCACCAGGTGGAAGTCAAGATGGAGGGGGACTCTGTGCTGCTGGAGGTGGATGGGGAGGAGGTGCTGC
GCCTGAGACAGGTCTCTGGGCCCCTGACCAGCAAACGCCATCCCATCATGAGGATTGCGCTTGGGGGGCT
GCTCTTCCCCGCTTCCAACCTTCGGTTGCCGCTGGTTCCTGCCCTGGATGGCTGCCTGCGCCGGGATTCC
TGGCTGGACAAACAGGCCGAGATCTCAGCATCTGCCCCCACTAGCCTCAGAAGCTGTGATGTAGAATCAA
ATCCCGGGATATTTCTCCCTCCAGGGACTCAGGCAGAATTCAATCTCCGAGACATTCCCCAGCCTCATGC
AGAGCCCTGGGCCTTCTCTTTGGACCTGGGACTCAAGCAGGCAGCAGGCTCAGGCCACCTCCTTGCTCTT
GGGACACCAGAGAACCCATCTTGGCTCAGTCTCCACCTCCAAGATCAAGAGAAGACTCTTCCACCTCTTT
TTGCCTGA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001289115
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).

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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_001289115.1, NP_001276044.1
RefSeq Size:	1118 bp
RefSeq ORF:	708 bp
Locus ID:	6462
UniProt ID:	P04278
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome, Secreted Protein
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 (7) differs in the 5' UTR, lacks part of the 5' coding region, uses a downstream start codon, and lacks an exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (6) is shorter, compared to isoform 1.