

Product datasheet for **SC119777**

IGFBP1 (NM_000596) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGFBP1 (NM_000596) Human Untagged Clone
Tag:	Tag Free
Symbol:	IGFBP1
Synonyms:	AFBP; hIGFBP-1; IBP1; IGF-BP25; PP12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000596, the custom clone sequence may differ by one or more nucleotides

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ATGTCAGAGGTCCCCGTTGCTCGCGTCTGGCTGGTACTGCTCCTGCTGACTGTCCAGGTCGGCGTGACAG
CCGGCGCTCCGTGGCAGTGCGCGCCCTGCTCCGCCGAGAAGCTCGCGCTCTGCCCGCCGGTGTCCGCCTC
GTGCTCGGAGGTCACCCGGTCCGCCGGCTGCGGCTGTTGCCCGATGTGCGCCCTGCCTCTGGGCGCCGCG
TGCGGCGTGGCGACTGCACGCTGCGCCCGGGACTCAGTTGCCGCGCGCTGCCGGGGAGCAGCAACCTC
TGCACGCCCTCACCCGCGCCAAGGCGCCTGCGTGCAGGAGTCTGACGCCTCCGCTCCCCATGCTGCAGA
GGCAGGGAGCCCTGAAAGCCCAGAGAGCACGGAGATAACTGAGGAGGAGCTCCTGGATAATTTCCATCTG
ATGGCCCTTCTGAAGAGGATCATTCCATCCTTTGGGACGCCATCAGTACCTATGATGGCTCGAAGGCTC
TCCATGTACCAACATCAAAAAATGGAAGGAGCCCTGCCGAATAGAACTCTACAGAGTCGTAGAGAGTTT
AGCCAAGGCACAGGAGACATCAGGAGAAGAAATTTCAAATTTTACCTGCCAAACTGCAACAAGAATGGA
TTTTATCACAGCAGACAGTGTGAGACATCCATGGATGGAGAGGCGGGACTCTGCTGGTGCCTTACCCTT
GGAATGGGAAGAGGATCCCTGGGTCTCCAGAGATCAGGGGAGACCCCAACTGCCAGATATATTTTAAATGT
ACAAACTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000596 unedited
 GTCAACAATTTGTAAACGACTCACTATAGGGCGGCCGCGATTTCGGCACCANATCCAGCGA
 GCATCTGCCGCGCGCCGCCACCCTCCCAAANAGCACTGGCCACCGCTCCACCATCA
 CTTGCCAGAGTTTGGGCCACCGCCCGCCACCAGCCCAGAGAGCATCGGCCCTGTC
 TGCTGCTCGCGCTGGAGATGTCAGAGGTCCTGCTCGCTGCTGGTGGTACTGCTC
 CTGCTGACTGTCCAGGTCGGCGTGACAGCCGGCGCTCCGTGGCAGTGCCGCCCTGCTCC
 GCCGAGAAGCTCGCGCTCTGCCCGCCGGTCCGCTCGTGGCAGGTCACCCGGTCC
 GCCGGCTGCGGCTGTTGCCCGATGTGCGCCTGCCTCTGGGCGCCGCTGCGGCGTGCG
 ACTGCACGCTGCCCGGGGACTCAGTTGCCGCGCGCTGCCGGGGAGCAGCAACCTCTG
 CACGCCCTCACCCGCGGCAAGGCGCTGCGTGCAGGAGTCTGACGCTCCGCTCCCAT
 GCTGCAGAGGCAGGGAGCCCTGAAAGCCAGAGACACGGAGATAACTGAGGAGGAGCTC
 CTGGATAATTTCCATCTGATGGCCCTTCTGAAGAGGATCATTCCATCCTTTGGGACGCC
 ATCAGTACCTATGATGGCTCGAAGGCTCTCCATGTCACCAACATCAAAAAATGGAAGGAG
 CCCTGCCGAATAGAACTCTACAGAGTCGTAGAGAGTTAGCCAAGGCACAGGAGACATCA
 NGAGAAGAAATTTCCAAATTTTACCTGCCAAACTGNNCACAGAATGGATTTTATCACAGC
 AGACAGTGTGAGACATCCATGGATGGAGAGGCGGGACTCTGCTGGTGCCTCCCTTGG
 TGGGAAGAGATCCCTGGTCTCCAGAATCAGGGGAGACCCACTGCAGAATATTTTATGTCA
 AACTGAAACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000596 unedited
 TTTTATTTCTTTCTTTCTTTCCATGTCAGCAATATATTATCTGTAATAATGTTCTCCAT
 ATATAGCACACGTGTTGTAACAACATATCCGGTGTACATTTAACAGGTGGCAACATCAC
 CACAGGTAGCTTTGATTATGCAACCAACTTCTCAACTCTCCCTACACATGTGACATC
 AGAATGTGTAATGGTGCGAATATACAAGTTAACCGTCCTCTTCAAAGTCTGAAAAAC
 TACTCTCTTATTTTCTTTTGCATTTTCTAGGCAGTATTTTCCATGCTCTTAAAAAC
 AGACGCTGGATCTTTGGTAAGCAGCAGAAATGCTATTACTTACCTACAATATGATGAGAA
 CTGTTGTATGATCTACAAATTGGCATAGGACAAATTAACAATAATAAAATTTACT
 GCGGGAAAAAAATAAACTTACAATGAACAAATAAACTGGTACTATATCAAGTGTGCT
 GGAAGATAAAAAGCGGATGCTATATATACACATGTATCTTATACGATATAAATGTGCG
 TGGTTTAGGATATAAATTTGCTATTTACCTAAATGTTGTGACTTGCCAAATCATAATATA
 TATGATGTGCAAAAGACCGAGCATTAAAAGTTGCTGGGCGGATCGGGGAGCCCCACTGA
 GCACCTTAAAGTCCGAGATTGACCTACTAGATAACAACGCGAGATCAGATGATACAGTAAAA
 TATCCTACCAGCTACTCTCTTGGCCGTCGAACGCGATCAGGTTTTAGCACAATCCCTTCA
 TCGACACGACATGTCTTTGCCATTGAGGATTTACTGTGGAGTGCAGTTTATATTAGAGT
 GGGACANATGCCATTGCGCTTAAGGTGATCGTATACCCGCGGTTATGATATAATCAAGCC
 TAACGAGCTAGACAGTGCCTTACAATTCAGTAACCTGTTTCGATTGCCACCCAT

Restriction Sites:

NotI-NotI

ACCN:

NM_000596

Insert Size:

1750 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_000596.2](#), [NP_000587.1](#)

RefSeq Size: 1660 bp

RefSeq ORF: 780 bp

Locus ID: 3484

UniProt ID: [P08833](#)

Cytogenetics: 7p12.3

Domains: thyroglobulin_1, IB

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein

Gene Summary: This gene is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP N-terminal domain and a thyroglobulin type-I domain. The encoded protein, mainly expressed in the liver, circulates in the plasma and binds both insulin-like growth factors (IGFs) I and II, prolonging their half-lives and altering their interaction with cell surface receptors. This protein is important in cell migration and metabolism. Low levels of this protein may be associated with impaired glucose tolerance, vascular disease and hypertension in human patients. [provided by RefSeq, Aug 2017]