

## Product datasheet for **SC119828**

### FBP1 (NM\_000507) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FBP1 (NM_000507) Human Untagged Clone
Tag:	Tag Free
Symbol:	FBP1
Synonyms:	FBP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119828 sequence for NM_000507 edited (data generated by NextGen Sequencing)

```

ATGGCTGACCAAGCGCCCTTCGACACGGACGTCAACACCCTGACCCGCTTCGTCATGGAG
GAGGGCAGGAAGGCCCGCGGCACGGGCGAGTTGACCCAGCTGCTCAACTCGCTCTGCACA
GCAGTCAAAGCCATCTCTTCGGCGGTGCGCAAGGCGGGCATCGCGCACCTCTATGGCATT
GCTGGTTCTACCAACGTGACAGGTGATCAAGTTAAGAAGCTGGACGTCCTCTCCAACGAC
CTGGTTATGAACATGTTAAAGTCATCCTTTGCCACGTGTGTTCTCGTGTGAGAAGAAGAT
AAACACGCCATCATAGTGAACCGGAGAAAAGGGTAAATATGTGGTCTGTTTTGATCCC
CTTGATGGATCTCCAACATCGATTGCCTTGTGTCCGTTGGAACCATTTTTGGCATCTAT
AGAAAGAAATCAACTGATGAGCCTTCTGAGAAGGATGCTCTGCAACCAGGCCGGAACCTG
GTGGCAGCCGGCTACGCACTGTATGGCAGTGCCACCATGCTGGTCTTGGCATGGACTGT
GGGGTCAACTGCTTCATGCTGGACCCGGCCATCGGGGAGTTCATTTTGGTGGACAAGGAT
GTGAAGATAAAAAAGAAAGGTAAATCTACAGCCTAACGAGGGGTACGCCAGGGACTTT
GACCCTGCCGTCACCTGAGTACATCCAGAGGAAGAAGTTCCCCCAGATAATTCAGCTCCT
TATGGGGCCCGGTATGTGGGCTCCATGGTGGCTGATGTTTCATCGCACTCTGGTCTACGGA
GGGATATTTCTGTACCCCGCTAACAAAGAAGAGCCCAATGGAAAGCTGAGACTGCTGTAC
GAATGCAACCCCATGGCCTACGTCATGGAGAAGGCTGGGGGAATGGCCACCACTGGGAAG
GAGGCCGTGTTAGACGTCATTCACACAGACATTCACCAGAGGGCGCCGGTGTCTTGGGA
TCCCCCGACGACGTGCTCGAGTTCCTGAAGGTGTATGAGAAGCACTCTGCCACAGTGA

```

Clone variation with respect to NM\_000507.3



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000507 unedited  
 TTGTATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGGTCCGCGGGGTAGGCG  
 GGGCGCAAGAGTGTCCCGGGGGCGGGGGCCGACCCGCGTCTAAAGGTTTCCGCGATT  
 ACCCGCCGGCGCTGGCTGGCCAGTTGCACCACGAGCGCTGCGGACACTCGGGGCGGC  
 AGTCGGTCTGTAGTCTCCCGCCAGTCCCGCGGCCCGCACCTGCCGCCGCACCTGCA  
 GCTCCGCACCTGCGGCCAGTGCCTACTGCCCTCTTTGCCGCCCGCACCTGCAGCCCCG  
 ACCTGCCGTTGCACCTGCAGCCCCGCGTCTACCCGGTTCAAGCATGGCTGACCAGGCG  
 CCCTTCGACACGACGTCAACACCCTGACCCGCTTCGTTCATGGAGGAGGGCAGGAAGGCC  
 CGCGGCACGGGCGAGTTGACCCAGCTGCTCAACTCGCTCTGCACAGCAGTCAAAGCCATC  
 TCTTCGGCGGTGCGCAAGGCGGGCATCGCGCACCTCTATGGCATTGCTGGTTCTACCAAC  
 GTGACAGGTGATCAAGTTAAGAAGCTGGACGTCCTCTCCAACGACCTGGTTATGAACATG  
 TAAAGTCATCCTTTGCCACGTGTCTCGTGTGAGAAGAAGATAAACACGCCATCATA  
 GTGGAACCGGAGAAAAGGTAATATGTGGTCTGTTTTGATCCCTTGATGGATCTTTCC  
 ACATCGATTGCCTTGTGTCGGTTGAAACCATTTTGGCATCTATAGAAAGAATCAACTGA  
 TGAGCCTTCTGAGAATGATGCTCTGCACCAGGCCGGAACCTGTTGGCAGCCGGCTACNCC  
 TGTATGGCAGTGCCACCATGCTGGTTCTTGCCATGGACTGTGGNGTCAACTGCTTCTGCT  
 GGACCCGGCTCGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000507 unedited  
 AGTAGGGCGATTCCGTCAGGCCACTNCAAAATATATCCCTAACACCAGTGGCGTTATGGA  
 GACTTTCATTTGGTTAGGAGTGCCAAGCATTCTACAGCATTGATGGTGGAAATAGTGA  
 TGCTTTTTATTTCTGCTCTCTAGGAATGTAAGGTGCACAGCAGGTGAGGGTACTGCTGTG  
 TGAGACAAAAGGTCCAGGTATAGGCAATCCCTCCGGTTGTTGACGGCACGTGCTCACT  
 GGGCGGGGTGCTTCTCATACATCTCCGGAACCTGTTACGTTTTCTGGGGATCCCAAGA  
 TCAACCGCTCCCTCTGGCGAATGTTGCGGCAACGACGTTAATACGGTCTCCCTCCAC  
 CCGCGGTATTCCCTCCGTCCTTTTATGATTATGGCCACGCGTCGCTTTTCTTCCCAT  
 CCCCTCTTTTCCCTCCCCCCCCCCCCCTCCCTCGTTTCTCCTTCCCCCCCCCTCTC  
 CATCATCTCGTTGATTGCTTCTTCCCTTTCCCTTCTCCTTCCCCCCCCCTTCTTA  
 TTCCACCCGTCGTCGCCTTTTCTCTCCCTTTCCCTATTTCTGCTTGTCTATGCTCC  
 GCTCACATCCCTCGTCTCACTCCCTCTCCTTCCCTTTCTTTCTCACGTTAATCTCCCT  
 TCTCTCCCCCCCCCTTTTCCCTCTCTTCCACTTCGTCGCCTCTTCCCCCTCTAT  
 CTTCTCACTCTCCCCATCTCCCCCTTCAATTTCTCATTTTCCCTCTTATCTCCCTTT  
 ATCCTTTTCTTTTTCCCCCACATTCTTTTTTCCCTTTTTTCCCCCTTCTTTTTTCT  
 ACCCCCCCTTCTTTCTTCTCCTCATATTCCTCCTTGGTTCTTCTTACTCATTCACT  
 CCCTCTTTTCTATCTCATTCTCTGTTTCTTTCTCCTCCTTACCCCTTTCTCTCT  
 TTCATTCTCCCCCTCTCCATTCTTCTTTCTCGCACTCTCCACCCAAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000507

**Insert Size:**

1730 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000507.2</a> , <a href="#">NP_000498.2</a>
<b>RefSeq Size:</b>	1527 bp
<b>RefSeq ORF:</b>	1017 bp
<b>Locus ID:</b>	2203
<b>UniProt ID:</b>	<a href="#">P09467</a>
<b>Cytogenetics:</b>	9q22.32
<b>Domains:</b>	FBPase
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Pentose phosphate pathway
<b>Gene Summary:</b>	<p>Fructose-1,6-bisphosphatase 1, a gluconeogenesis regulatory enzyme, catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. Fructose-1,6-diphosphatase deficiency is associated with hypoglycemia and metabolic acidosis. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.</p>