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Product datasheet for SC322529

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for SC322529
GCACCACGAGCGCTGCGGACACTCGGGGCGGCAGTCGGTCTGTCAGTCCTCCCGCCAGGT
CCCGCGGCCCGCACCTGCCGCCCGCACCTGCAGCTCCGCACCTGCGGCCAGTGCCTACTG
CCCTCTCTTGCCGCCCGCACCTGCAGCCCCGCACCTGCCGCTTGCACCTGCAGCCCCGCG
CTCTACCCGGTTCAAGCATGGCTGACCAGGCGCCCTTCGACACGGACGTCAACACCCTGA
CCCGCTTCGTCATGGAGGAGGGCAGGAAGGCCCGCGGCACGGGCGAGTTGACCCAGCTGC
TCAACTCGCTCTGCACAGCAGTCAAAGCCATCTCTTCGGCGGTGCGCAAGGCGGGCATCG
CGCACCTCTATGGCATTGCTGGTTCTACCAACGTGACAGGTGATCAAGTTAAGAAGCTGG
ACGTCCTCTCCAACGACCTGGTTATGAACATGTTAAAGTCATCCTTTGCCACGTGTGTTC
TCGTGTCAGAAGAAGATAAACACGCCATCATAGTGGAACCGGAGAAAAGGGGTAAATATG
TGGTCTGTTTTGATCCCCTTGATGGATCTTCCAACATCGATTGCCTTGTGTCCGTTGGAA
CCATTTTTGGCATCTATAGAAAGAAATCAACTGATGAGCCTTCTGAGAAGGATGCTCTGC
AACCAGGCCGGAACCTGGTGGCAGCCGGCTACGCACTGTATGGCAGTGCCACCATGCTGG
TCCTTGCCATGGACTGTGGGGTCAACTGCTTCATGCTGGACCCGGCCATCGGGGAGTTCA
TTTTGGTGGACAAGGATGTGAAGATAAAAAAGAAAGGTAAAATCTACAGCCTTAACGAGG
GCTACGCCAGGGACTTTGACCCTGCCGTCACTGAGTACATCCAGAGGAAGAAGTTCCCCC
CAGATAATTCAGCTCCTTATGGGGCCCGGTATGTGGGCTCCATGGTGGCTGATGTTCATC
GCACTCTGGTCTACGGAGGGATATTTCTGTACCCCGCTAACAAGAAGAGCCCCAATGGAA
AGCTGAGACTGCTGTACGAATGCAACCCCATGGCCTACGTCATGGAGAAGGCTGGGGGAA
TGGCCACCACTGGGAAGGAGGCCGTGTTAGACGTCATTCCCACAGACATTCACCAGAGGG
CGCCGGTGATCTTGGGATCCCCCGACGACGTGCTCGAGTTCCTGAAGGTGTATGAGAAGC
ACTCTGCCCAGTGAGCACCTGCCCTGCCTGCATCCGGAGAATTGCCTCTACCTGGACCTT
TTGTCTCACACAGCAGTACCCTGACCTGCTGTGCACCTTACATTCCTAGAGAGCAGAAAT
AAAAAGCATGACTATTTCCACCATCAAATGCTGTAGAATGCTTGGCACTCCCTAACCAAA
TGCTGTCTCCATAATGCCACTGGTGTTAAGATATATTTTGAGTGGATGGAGGAGAAATAA
ACTTATTCCTCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_000507
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_000507.2, NP_000498.2
RefSeq Size:	1527 bp
RefSeq ORF:	1017 bp
Locus ID:	2203
UniProt ID:	P09467
Cytogenetics:	9q22.32
Domains:	FBPase
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Pentose phosphate pathway
Gene Summary:	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] Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.