

Product datasheet for MR205054

Fbp1 (NM_019395) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbp1 (NM_019395) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbp1
Synonyms:	Fbp-2; Fbp2; Fbp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205054 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAACCATGCGCCCTTCGAAACGGATATCAGCACCCCTGACCCGCTTCGTCATGGAGCAGGGCAGGA
AGGCTCAGGGCACGGGGAGTTGACCCAGCTGCTGAATTCGCTCTGCACCCGATCAAAGCCATCTCGTC
TGCGGTGCGCCAGGCGGGCATCGCACAGCTCTATGGTATCGCTGGCTCAACCAATGTGACTGGGGATCAA
GTAAGAAGCTGGACATACTTTCCAATGACCTGGTATCAATATGCTGAAGTCGCTACGCTACCTGTG
TTCTTGTGTCTGAAGAAAACACAAATGCCATCATAATCGAACCTGAGAAGAGGGGCAAATATGTTGTCTG
TTTCGATCCCCTTGATGGCTCATCCAACATTGACTGCCTTGTGTCCATCGGAACATTTTGGCATTAC
AGAAAGAAAAGTACTGATGAGCCTTCTGAGAAAGGATGCTCTGCAGCCCGCCGGGACCTGGTGGCAGCCG
GGTATGCGCTCTATGGCAGTGCCACCATGTTGGTCTTGGCATGGATTGTGGTGTCAACTGCTTCATGCT
GGACCCGTCCATTGGAGAATTCATTATGGTGGACAGGGACGTGAAGATGAAGAAGAAAGGTAACATCTAC
AGCCTTAATGAGGGTTATGCCAAGGACTTTGACCCTGCCATCAATGAGTATCTCCAGAGGAAAAAGTTCC
CTCCGGATGGTTCAGCCCCCTATGGTGCCCGGTATGTGGGGTCCATGGTGGCTGATATTCACCGCACTCT
GGTATATGGAGGGATCTTTTTATACCCCGCCAAACAAGAAAAGCCCAAGTGGAAAGCTGCGGCTGCTGTAT
GAGTGCAACCCCATAGCTTATGTATGGAGAAGGCCGGTGGCTCGCCACCACGGGGACAAAGATATAT
TAGACATCGTTCCACCGAGATCCACCAGAAGGCACCGATCGTCATGGGGTCTCTGAAGATGTGCAGGA
GTTCTGGAGATCTACAGGAAGCACAAAGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR205054 protein sequence
Red=Cloning site Green=Tags(s)

MANHAPFETDISTLTRFVMEQGRKAQGTGELTQLLNSLCTAIKAISSAVRQAGIAQLYGIAGSTNVTGDQ
 VKKLDILSNDLVINMLKSSYATCVLVSEENTNAIIIEPEKRGKYVVCDFPLDGSSNIDCLVSIIGTIFGIY
 RKKSTDEPSEKDALQPRDLVAAGYALYGSATMLVLAMDCGVNCFMLDPSIGEFIMVDRDVKMKKGNIIY
 SLNEGYAKDFDPAINEYLQRKKFPPDGSAPYGARYVVGSMVADIHRTL VYGGIFLYPANKKSPSGKLRLLY
 ECNPIAYVMEKAGGLATTGDKDILDIVPTEIHQKAPVVMGSSSEDEVQEFLEIYRKHKAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019395

ORF Size: 1017 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_019395.3](#)

RefSeq Size: 1479 bp

RefSeq ORF: 1017 bp

Locus ID: 14121

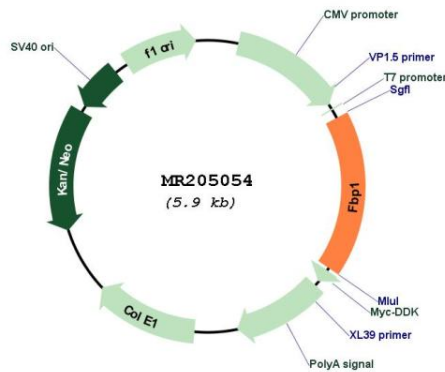
UniProt ID: [Q9QXD6](#)

Cytogenetics: 13 B3

MW: 36.9 kDa

Gene Summary: Catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate in the presence of divalent cations, acting as a rate-limiting enzyme in gluconeogenesis. Plays a role in regulating glucose sensing and insulin secretion of pancreatic beta-cells. Appears to modulate glycerol gluconeogenesis in liver. Important regulator of appetite and adiposity; increased expression of the protein in liver after nutrient excess increases circulating satiety hormones and reduces appetite-stimulating neuropeptides and thus seems to provide a feedback mechanism to limit weight gain.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205054