

Product datasheet for **MR205387**

Fbp2 (NM_007994) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbp2 (NM_007994) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbp2
Synonyms:	Fbp-1; Fbp1; Rae-30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205387 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACGGACAGAAGCCCTTTGAGACAGACATGCTGACCCTGACCCGTTACGTTATGGAAAAGGGGCGAC
AGGCCAAAGGGACCGGAGAACTCACCCAGCTGCTCAACTCGATGCTGACTGCCATCAAAGCCATCTCTTC
CGCAGTGCGAAGGCCGGCCTGGCCAACCTGTATGGGATTCGGGGAGCGTGAATGTGACAGGAGATGAG
GTGAAGAAACTGGACGTGCTGTCCAACCTCCCTGGTCATCAACATGCTTCAGTCCTCTACAGCACCTGTG
TGCTCGTCTCCGAAGAGAATAAAGAGGGCGGTGATCACAGCCAGGAGAGGGGGAAATATGTGGTTTG
CTTTGACCCTCTGGATGGATCTTCAAACATTGACTGCCTGGCCTCCATCGGAACTATATTTGCTATTTAC
AGAAAGACCACGGAGGATGAGCCTTCTGAGAAGGATGCCTTGCAGCCTGGCCGCAACATCGTGGCTGCGG
GTTATGCACTGTATGGTAGTGCAACCCTGGTCGCTCTTTCCACAGGACAAGGAGTAGATCTCTTCATGCT
GGACCCGGCTCTTGGAGAATTCGTGCTAGTGAAAAAGATGTCCGGATTAAGAAGAAAGGGAAAAATTTT
AGCCTCAACGAGGGCTATGCCAAGTATTTGATGCTGCTACTGCTGAGTATGTACAGAAAAAGAAATTC
CCGAGGATGGCAGTGGCCTTATGGAGCCAGGTACGTGGGTTCCATGGTGGCTGATGTGCATCGCACCT
GGTCTATGGAGGAATCTTCATGTACCCAGCCAACCAGAAGAGTCCATATGGCAAGCTCCGGCTCCTGTAT
GAATGCAATCCTGTGGCCTATATCATCGAGCAAGCAGGAGTATGGCAACCACAGGCACCCAGCCAGTAC
TGGATGTGAAACCTGAGAGTATTCACCAGCGAGTCCCCCTCATTCTGGGGTCCCCGAGGATGTGCAAGA
GTATCTCAGCTGTGTGCAGAGAAACCAGGCAGGCAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205387 protein sequence
 Red=Cloning site Green=Tags(s)

MTDRSPFETDMLTLTRYVMEKGRQAKGTGELTQLLNSMLTAIKAISSAVRKAGLANLYGISVSVNVTGDE
 VKKLDVLSNSLVINMLQSSYSTCVLVSEENKEAVITAQERRGKYVVCDFPLDGSSNIDCLASIGTIFAIY
 RKTTEDEPSEKDALQPGRNIVAAGYALYGSATLVALSTGQGVDFMLDPALGEFVLVEKDVRIKKKGIKIF
 SLNEGYAKYFDAATAEYVQKKKFPEDGSAPYGARYVGSVMADVHRTL VYGGIFMYPANQKSPNGKLRLLY
 ECNPVAYIIEQAGGMATTGTQPVLDVKPESIHQRVPLILGSPEDVQEYLSCVQRNQAGR

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_007994

ORF Size: 1020 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_007994.2](#), [NM_007994.3](#), [NP_032020.2](#)

RefSeq Size: 1294 bp

RefSeq ORF: 1020 bp

Locus ID: 14120

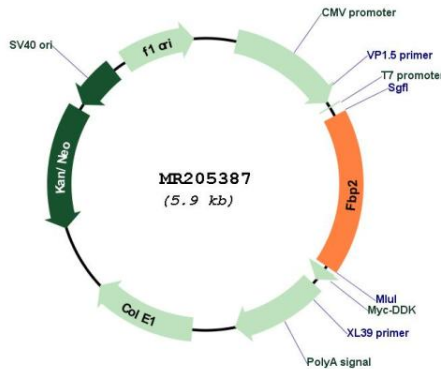
UniProt ID: [P70695](#)

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 and probably participates in glycogen synthesis from carbohydrate precursors, such as lactate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205387