

## Product datasheet for **MR204287**

### Igfbp2 (NM\_008342) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Igfbp2 (NM_008342) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Igfbp2
Synonyms:	AI255832; IBP-2; IGFBP; Igfbp-2; mIGFBP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204287 representing NM_008342 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCCGAGATTGGCGGCCCGCGCTGCCGCTGCTCCTGCCGTCGTTGCTCTTGCTGCTGCTTTGG  
GCGCGGGCGGCTGCGGCCCGGGTGCGCGCCGAGGTGCTGTTCCGCTGCCACCCTGCACGCCGAGCG  
TCTGGCCGCTTGGGGCCCCACCCGACGCGCCTGCGCCGAGCTGGTGCAGAGCCCGGCTGCGGCTGC  
TGCTCCGTGTGCGCACGGCAGGAGGGCGAAGCATGCGGCGTCTACATCCCGCGCTGCGCCGACGCTAC  
GCTGCTATCCCAACCCGGGCTCCGAGCTGCCCTGAAGGCGCTTGTACAGGCGGGTACCTGTGAAAA  
GAGACGCGTGGGACACCCACAGCAGTTGCAGACAGTGATGACGACCACTCTGAGGGAGGCCTGGTG  
GAGAACCACGTGGATGGACCATGAACATGTTGGGAGGTGGTAGCAGTGCTGGCCGAAGCCCTCAAGT  
CAGGCATGAAGGAGCTGGCTGTGTTCCGGGAGAAGGTAATGAACAGCACCGGCAGATGGGCAAGGGTGC  
CAAACACCTCAGTCTGGAGGAGCCAAAGAAGTTGCGCCCGCTCCCGCCAGGACCCCTTGCAGCAGGAG  
TTGGACCAGGTCTGGAGCGGATCTCCACCATGCGCCTCCGGATGATCGGGGCCCTGGAAACATCTCT  
ACTCCCTGCACATCCCCAACTGTGACAAGCATGGCCGGTACAACCTTAAGCAGTGAAGATGTCTCTGAA  
CGGACAGCGCGGGGAGTGCTGGTGTGTGAACCCCAATACCGGGAAGCCCATCCAGGGAGCTCCACCATC  
CGGGGAGACCCCGAGTGCCATCTCTTCTACAACGAGCAGCAGGAGACTGGTGGGGCCCATGCCAAAGTG  
TGACG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204287 representing NM\_008342  
Red=Cloning site Green=Tags(s)

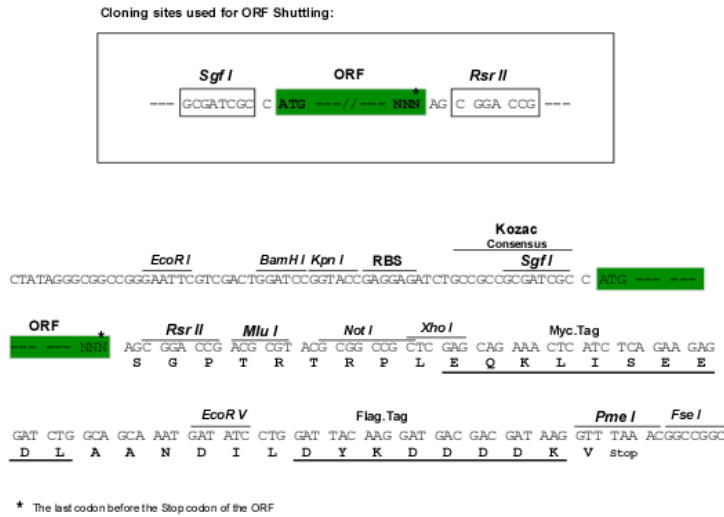
MLPRLGGPALPLLLPSLLLLLLGAGGCGPGVRAEVLFRCPPTPERLAACGPPDAPCAELVREPGCGC  
 CSVCARQEAGEACGVYIPRCAQTLRCYPNPGSELPLKALVTGAGTCEKRRVGTTPQQVADSDDDHSEGLV  
 ENHVDGTMNMLGGSSAGRKPLKSGMKELAVFREKVNQHRQMKGAKHLSLEEKKLRRPPPARTPCQQE  
 LDQVLERI STMRLPDDRGPLEHL YSLHIPNCDKHGRYNL KQCKMSLNGQRGECWCVNPNTGKPIQGAPTI  
 RGDPECHLFYNEQQETGGAHAQSVQ

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9005\\_d12.zip](https://cdn.origene.com/chromatograms/mm9005_d12.zip)

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_008342

**ORF Size:** 915 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\\_008342.3](#), [NP\\_032368.2](#)

**RefSeq Size:** 1342 bp

**RefSeq ORF:** 918 bp

**Locus ID:** 16008

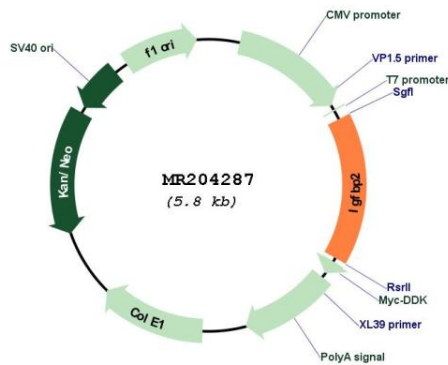
**UniProt ID:** [P47877](#)

**Cytogenetics:** 1 36.94 cM

**MW:** 33.3 kDa

**Gene Summary:** The protein encoded by this gene is one of several similar proteins that bind insulin-like growth factors I and II (Igf-I and Igf-II). The encoded protein can be secreted into the bloodstream, where it binds Igf-I and Igf-II with high affinity, or it can remain intracellular, interacting with many different ligands. Two transcript variants, one encoding a secreted isoform and the other encoding a nonsecreted isoform, have been found for this gene. [provided by RefSeq, Sep 2015]

### Product images:



Circular map for MR204287