

## Product datasheet for MR203644

### Igfbp1 (NM\_008341) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Igfbp1 (NM_008341) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Igfbp1
Synonyms:	IGFBP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203644 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCCGAGTTCCTAACTGTTGTTTCTTGGCCGTTCTGATTCTCCTGTCCTTCCAGATTGGCGTGGCCG  
CTGGAGCCCCCAGCCATGGCACTGTGCTCCCTGCACTGCTGAGAGGCTGGGGCTCTGTCCACCCGTGCC  
CGCTTCGTGCCCGAGATTTCTCGGCCTGCAGGCTGTGGCTGCTGCCGACATGTGCCTGCCGATGGGT  
GCTGCCTGCGGTGTGGCCACTGCTCGCTGCGCCAGGGACTCAGCTGCCGTGCGTTGCCAGGAGAGCCTC  
GTCCCCTGCATGCCCTCACCCGTGGTCAAGGAGCCTGTGTACCAGAACCTGCTGCACCCGCCACGAGCAC  
CTTGTCAGCTCCAGCATGAAGAGGCAAAGGCTGCTGTGGTCTCCGCGGATGAGCTTTCTGAGAGCCCA  
GAGATGACAGAGGAGCAGCTGCTGGACAGCTTCCACCTGATGGCCCCATCCCGCGAGGATCAGCCATCC  
TGTGGAACGCCATCAGCACCTATAGCAGCATGCGGGCCCGGAGATCGCCGACCTCAAGAAATGGAAGGA  
GCCCTGCCAACGAGAAGCTCTATAAAGTGCTAGAGAGATTAGCTGCAGCCCAACAGAAAGCAGGAGATGAA  
ATCTACAAATTTTATCTGCCAACTGCAACAAGAATGGATTTTATCACAGCAAACAGTGTGAGACATCCC  
TGGATGGAGAAGCTGGACTCTGCTGGTGTGCTACCCAAGGAGTGGAAAGAAAATCCCTGGGTCTCTGGA  
GACTAGAGGGGACCCCACTGCCACCAGTATTTTAATGTACATAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203644 protein sequence  
Red=Cloning site Green=Tags(s)

MPEFLT VVSWPFL ILLSFQIGVAAGAPQ PWHCAPCTAERLGLCPPVPASCP EISRPAGCGCCPTCALPMG  
AACGVATARCAQGLSCRALPGEPRPLHALTRGQGACVPEPAAPATSTLSSSQHEEAKAAVVSAD E LSESP  
EMTEEQLLDSFHLMAPSREDQPILWNAISTYSSMRAREIADLKKWKEPCQRELKYLRLAAAQQKAGDE  
IYKFYLPNCNKNGFYHSKQCETSLDGEAGLCWCVYPWSGKKIPGSLETRGDPNCHQYFNVHN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_008341

**ORF Size:** 819 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\\_008341.3](#)

**RefSeq Size:** 1522 bp

**RefSeq ORF:** 819 bp

**Locus ID:** 16006

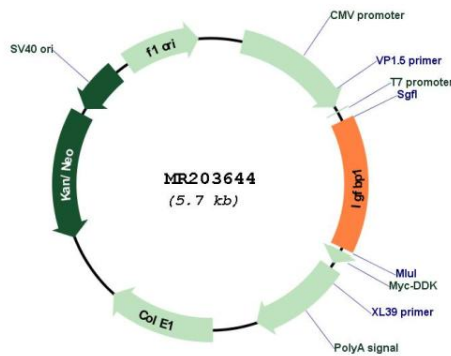
**UniProt ID:** [P47876](#)

**Cytogenetics:** 11 4.75 cM

**MW:** 29.5 kDa

**Gene Summary:** IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors. Promotes cell migration (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR203644