

## Product datasheet for **RC238375**

### IGF2BP2 (NM\_001291875) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IGF2BP2 (NM_001291875) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IGF2BP2
Synonyms:	IMP-2; IMP2; VICKZ2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238375 representing NM\_001291875  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGAAGCTAAGCGGGCATCAGTTTGAGAACTACTCCTTCAAGATTTCTACATCCCGGATGAAGAGG  
 TGAGCTCCCTTCGCCCCCTCAGCGAGCCAGCGTGGGGACCCTCTCCCGGGAGCAAGGCCACGCCCC  
 TGGGGCACTTCTCAGGCCAGACAGATTGATTTCCCGCTGCGGATCCTGGTCCCCACCCAGTTTGTGGT  
 GCCATCATCGAAAGGAGGGCTTGACCATAAAGAACATCACTAAGCAGACCCAGTCCCGGGTAGATATCC  
 ATAGAAAAGAGAAGCTCTGGAGCTGCAGAGAAGCCTGTCCACATCCATGCCACCCAGAGGGGACTTCTGA  
 AGCATGCCGATGATTCTTGAATCATGCAGAAAGAGGCAGATGAGACCAAAGTACGCCGAAGAGATTCT  
 CTGAAAATCTTGGCACACAATGGCTTGGTTGGAAGACTGATTGGAAAAGAAGGCAGAAATTTGAAGAAA  
 TTGAACATGAAACAGGGACCAAGATAACAATCTCATCTTTCAGGATTTGAGCATATAACAACCCGGAAG  
 AACCATCACTGTGAAGGGCACAGTTGAGGCCTGTGCCAGTGTGAGATAGAGATTATGAAGAAGCTGCGT  
 GAGGCCTTTGAAAATGATATGCTGGCTGTTAACCAACAAGCCAATCTGATCCCAGGGTTGAACCTCAGCG  
 CACTTGGCATCTTTTCAACAGGACTGTCCGTGCTATCTCCACCAGCAGGGCCCCGCGGAGCTCCCCCCGC  
 TGCCCCCTACCACCCCTTCACTACCCACTCCGGATACTTCTCCAGCCTGTACCCCATCACCAGTTTGGC  
 CCGTTCGCCGATCATCACTCTTATCCAGAGCAGGAGATTGTGAATCTTTCATCCCAACCCAGGCTGTGG  
 GCGCCATCATCGGAAGAAGGGGGCACACATCAAACAGCTGGCGAGATTCGCGGGAGCCTCTATCAAGAT  
 TGCCCCGCGGAAGGCCAGACGTCAGCGAAAGGATGGTCATCATCACGGGCCACCGGAAGCCAGTTC  
 AAGGCCAGGGACGGATCTTTGGGAACTGAAAGAGGAAAACCTTTTAAACCCAAAGAAGAAGTGAAGC  
 TGAAGCGCATATCAGAGTGCCCTCTTCCACAGCTGGCCGGGTGATTGGCAAAGTGGCAAAGCCGTGAA  
 CGAACTGCAGAACTTAACCAAGTGCAGAAAGTTCATGCTGCCTCGTGACCAAACGCCAGATGAAAATGAGGAA  
 GTGATCGTCAGAAATTATCGGGCACTTCTTGTAGCCAGACTGCACAGCGCAAGATCAGGGAAATTGTAC  
 AACAGGTGAAGCAGCAGGAGCAGAAATACCCTCAGGGAGTGCCTCACAGCGCAGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238375 representing NM\_001291875  
 Red=Cloning site Green=Tags(s)

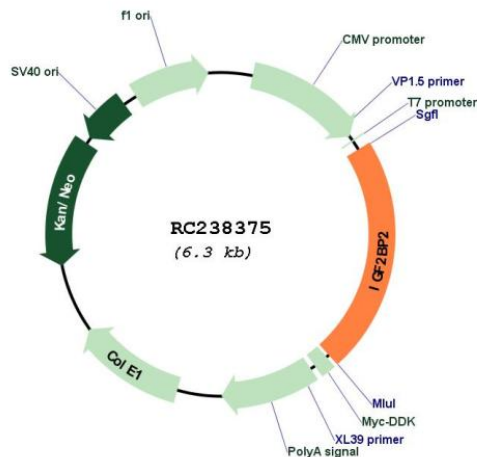
MEKLSGHQFENYSFKISYIPDEEVSSPSPQRAQRGDHSSREQGHAPGGTSQARQIDFPLRILVPTQFVG  
 AIIGKEGLTIKNITKQTQSRVDIHRKENSAGAAEKPVTHATPEGTSEACRMILEIMQKEADETKLAEIIP  
 LKILAHNGLVGRLLIGKEGRNLKIEHETGKITISSLQDL SIYNPERTITVKGTVEACASAEIEIMKKLR  
 EAFENDMLAVNQANLIPGLNLSALGIFSTGLSVL SPPAGPRGAPPAAPYHPFTTHSGYFSSLYPHHQFG  
 PFPHHHSYPEQEIVNLF IPTQAVGAIIGKKGAHIKQLARFAGASIKIAPAEKPDVSRMVIITGPPEAQF  
 KAQGRIFGKLKEENFFNPKEEVKLEAHIRVPSSTAGRVIGKGGKTVNELQNL TSAEVIVPRDQTPDENE  
 VIVRIIGHFFASQTAQRKIREIVQQVKQEQKYPQGVASQRSK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001291875

**ORF Size:** 1389 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\\_001291875.3](#)

**RefSeq Size:** 3416 bp

**RefSeq ORF:** 1392 bp

**Locus ID:** 10644

**UniProt ID:** [Q9Y6M1](#)

**Cytogenetics:** 3q27.2

**MW:** 51.3 kDa

**Gene Summary:** This gene encodes a protein that binds the 5' UTR of insulin-like growth factor 2 (IGF2) mRNA and regulates its translation. It plays an important role in metabolism and variation in this gene is associated with susceptibility to diabetes. Alternative splicing and promoter usage results in multiple transcript variants. Related pseudogenes are found on several chromosomes. [provided by RefSeq, Sep 2016]