

## Product datasheet for **RC238814**

### IGF2BP2 (NM\_001291872) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IGF2BP2 (NM_001291872) 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:**

>RC238814 representing NM\_001291872  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTCTCATGTCTGGACACTACCACGTTGATGGCTTTCTAAATCCAGGGAGCAGGAAAATTCAGATTC  
 GAAACATCCCTCCTCACCTGCAGTGGGAGGTGTTGGATGGACTTTTGGCTCAATATGGGACAGTGGAGAA  
 TGTGGAACAAGTTTTTGCCTTTTCCCTAGTCAACACAGACACAGAAAACCGCGTGTCAACGTCACATAT  
 GCAACAAGAGAAGAAGCAAAAATAGCCATGGAGAAGCTAAGCGGGCATCAGTTTGAGAACTACTCCTTCA  
 AGATTTCTACATCCCGGATGAAGAGGTGAGCTCCCTTCGCCCCCTCAGCGAGCCAGCGTGGGGACCA  
 CTCTTCCCGGGAGCAAGGCCACGCCCTGGGGCACTTCTCAGGCCAGACAGATTGATTTCCCGCTCGCG  
 ATCCTGGTCCCCACCCAGTTTGTGGTGCCATCATCGAAAGGAGGGCTTGACCATAAAGAACATCACTA  
 AGCAGACCCAGTCCCGGTAGATATCCATAGAAAAGAGAACTCTGGAGCTGCAGAGAAGCCTGTCACCAT  
 CCATGCCACCCCAGAGGGGACTTCTGAAGCATGCCGCATGATTCTTGAATCATGCAGAAAGAGGCAGAT  
 GAGACAAAAGTAGCCGAAGAGATTCTCTGAAAATCTTGGCACACAATGGCTTGGTTGGAAGACTGATTG  
 GAAAAGAAGGCAGAAATTTGAAGAAAATGAACATGAAACAGGGACCAAGATAACAATCTCATCTTTGCA  
 GGATTTGAGCATATAACAACCGGAAAGAACCATCACTGTGAAGGGCACAGTTGAGGCCTGTGCCAGTGCT  
 GAGATAGAGATTATGAAGAAGCTGCGTGAGGCCTTTGAAAATGATATGCTGGCTGTTAACCAACAAGCCA  
 ATCTGATCCCAGGGTTGAACCTCAGCGCACTTGGCATCTTTCAACAGGACTGTCCTGTCTATCTCCACC  
 AGCAGGGCCCCCGGAGCTCCCCCGCTGCCCCCTACCACCCCTCACTACCCACTCCGGATACTTCTCC  
 AGCCTGTACCCCATCACCAGTTTGGCCGTTCCCGCATCATCACTTTATCCAGAGCAGGAGATTGTGA  
 ATCTTTCATCCCAACCCAGGCTGTGGCGCCATCATCGGGAAGAAGGGGGCACACATCAAACAGCTGGC  
 GAGATTCGCCGGAGCCTCTATCAAGATTGCCCTGCGGAAGGCCAGACGTCAGCGAAAGGATGGTCATC  
 ATCACCGGCCACCAGGAGCCAGTTCAAGGCCAGGGACGGATCTTTGGAAAAGTGAAGAGGAAAAGT  
 TCTTTAACCCAAAGAAGAAGTGAAGCTGGAAGCGCATATCAGAGTGCCCTCTTCCACAGCTGGCCGGGT  
 GATTGGCAAAGGTGGCAAGACCGTGAACGAACTGCAGAACTTAACCAGTGCAGAAGTCACTGTCCTCGT  
 GACCAAACGCCAGATGAAAATGAGGAAGTATCGTGCAGAAATATCGGGCACTTCTTTGCTAGCCAGACTG  
 CACAGCGCAAGATCAGGGAAATGTACAACAGGTGAAGCAGCAGGAGCAGAAATACCTCAGGGAGTCGC  
 CTCACAGCGCAGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238814 representing NM\_001291872  
 Red=Cloning site Green=Tags(s)

MFSCPGHYHVDGFLNPGSRKIQRNIPPHLQWEVLDGLLAQYGTVENVEQVFAFSLVNTDTETAVNVVY  
 ATREEAKIAMEKLSGHQFENYSFKISYIPDEEVSSPSPQRAQRGDHSSREQGHAPGGTSQARQIDFPLR  
 ILVPTQFVGAIIIGKEGLTIKNIKTQTSRVDIHRKENSAGAEKPVTIHATPEGTSEACRMILEIMQKEAD  
 ETKLAEIPLKILAHNGLVGRLLIGKEGRNLKIEHETGKITISSLDLSIYNPERTITVKGTVEACASA  
 EIEIMKKLREAFENDMLAVNQANLIPGLNLSALGIFSTGLSVLSPAGPRGAPPAAPYHPFTTHSGYFS  
 SLYPHHQFGPFPHHSYPEQEIVNLFIPTQAVGAIIGKKGAHIKQLARFAGASIKIAPAEGPDVSERMVI  
 ITGPPEAQFKAQGRIFGKLKEENFFNPKEEVKLEAHIRVPSSTAGRVIGKGGKTVNELQNL TSAEIVVPR  
 DQTPDENEEVIVRIIGHFFASQTAQRKIREIVQVQKQEQKYPQGVASQRSK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

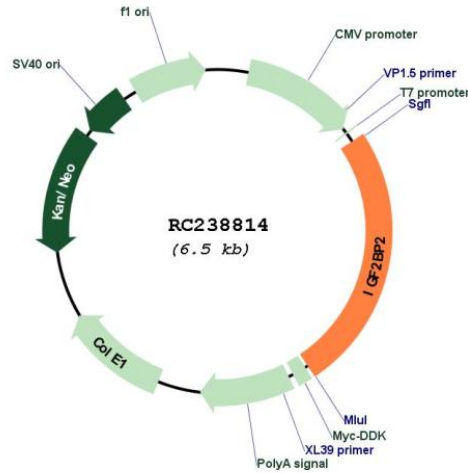
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


<b>ACCN:</b>	NM_001291872
<b>ORF Size:</b>	1626 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291872.3</a>
<b>RefSeq Size:</b>	3498 bp
<b>RefSeq ORF:</b>	1629 bp
<b>Locus ID:</b>	10644
<b>UniProt ID:</b>	<a href="#">Q9Y6M1</a>
<b>Cytogenetics:</b>	3q27.2
<b>MW:</b>	60.1 kDa
<b>Gene Summary:</b>	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]