

## Product datasheet for **RR216970**

### Igf2bp2 (NM\_001270598) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Igf2bp2 (NM_001270598) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Igf2bp2
Synonyms:	RGD1305614
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216970 representing NM\_001270598  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATGAACAAGCTGTACATCGGGAACCTGAGCCCCGCCGTCCTGCGGACGACCTCCGGCAGCTCTTCG  
 GGGACAGGAAGCTGCCCCTGCGGGACAGGTCTACTCAAGTCCGGCTACGCCTTCGTGGACTACCCCGA  
 CCAGAACTGGGCCATCCGCGCCATCGAGACCCTCTCGGGTAAAGTGGAGTTGCATGGGAAAAATCATGGAA  
 GTTGATTACTCAGTCTCTAAAAAGCTAAGGAGCAGAAAAATCCAGATTGAAACATCCCGCTCACCTGC  
 AGTGGGAGGTGTTGGATGGCCTGTTGGCTGAGTATGGGACGGTAGAGAACGTGGAGCAAGTCAACACGGA  
 CACAGAAACAGCCGTTGTCAACGTCACCTATATGACAAGGGAAGAGGCAAAGGTAGCTATTGAGAAGTTA  
 AGTGGGCATCAGTTCGAGGACTACTCCTCAAGATTTCTACATCCCGACGAAGAATTGAGCTCCCCTT  
 CACCCCTCATCGAGCCCGGGAACAAGGCCATGGCCCCGGGAGCTTCTCAGGCCAGACAGATTGACTT  
 CCCGCTGAGGATCTGGTCCCCACCCAGTTTGTGGTGCATCATCGGAAAGGAGGGCTTGACCATAAAG  
 AACATCACTAAACAGACCAGTCCCGGGTAGACATCCACAGGAAGGAGAACTCTGGGGCTGCCGAGAAGC  
 CTGTACAAATCCACGCCACCCAGAAAGGACATCTGAAGCCTGCCGCATGATTCTTGAGATTATGCAGAA  
 AGAGGCTGATGAGACAAACTGGCAGAAGAGGTTCTTTGAAAATCTTGCCCCAACCGCTTCGTCGGA  
 AGACTGATTGGCAAAGAAGGCAGAAACCTGAAGAAAATTGAACACGAGACAGGGACCAAGATAACTATCT  
 CATCCTTGAGGATTTGAGCATATATAACCCCGAGAGAACCATCACGGTGAAGGTACCATTGAAGCCTG  
 TGCCAGTGCTGAGATGGAGATTAGAAGAAGCTACGCGAGGCCTTTGAAAACGACATGCTGGCCGTTAAT  
 CAACAAGCCAATCTGATCCAGGGCTGAACCTCAGTGCCTCGGCATCTTTTCGACAGGACTGTCTGTGC  
 TTCTCCACCAGCAGGGCCCCGTGGAGCTCCCCCGAGTCCCCCTATCACCCATTTGCTACCCACCCGG  
 ATACTTCTCAGTCTGTACCCTCATCACCATTTTGGGCCATTCCCGCATACCACCTCGTACCCAGAGCAA  
 GAGACGGTGAAGTCTTTCATCCCAACGCAGGCTGTGGGTGCTATCATCGGAAAAAGGGGCACACATCA  
 AACAGCTGGCTCGATTTGCCGGTGCCTCCATCAAGATCGTCCAGCGGAAGGTCCAGATGTCAGTGAGAG  
 GATGGTCATCATACCGGGCCTCCTGAAGCCAGTTCAAGGCTCAGGGACGGATCTTTGGGAAACTGAAA  
 GAAGAAAATTCTTTAATCCCAAAGAAGAGGTGAAGCTGGAGGCCACATCCGAGTTCCCTCCTCGACAG  
 CTGGCCGGGTGATTGGCAAAGGCGGTAAAACCGTAAATGAGCTGCAGAACTTGACAAGTGCAGAAGTTAT  
 AGTGCCTCGTACCAAACGCCAGATGAGAACGAGGAAGTATCGTCAGAATTATCGGGCATTTTTTGCT  
 AGCCAGACTGCACAACGCAAGATCAGGGAAATTGTACAGCAGGTGAAGCAGCAGGGCAGAAATACCCCT  
 AGGGAGTCGCCCCACAGCGCAGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216970 representing NM\_001270598  
 Red=Cloning site Green=Tags(s)

MMNKLYIGNLSPAVTADDLRQLFGDRKLPLAGQVLLKSGYAFVDYDPQNWAIETLSGKVELHGKIME  
 VDYSVSKLRSRQIQRNIPPHLQWEVLDGLLAEYGTVENVEQVNTDTETAVVNVYMTREEAKVAIEKL  
 SGHQFEDYSFKISYIPDEELSSPSPPHAREQGHGPGSSSQARQIDFPLRILVPTQFVGAIIIGKEGLTIK  
 NITKQTQSRVDIHRKENSAAEKPVTIHATPEGTSEACRMILEIMQKEADETKLAEVPLKILAHNGFVG  
 RLIGKEGRNLKKIEHETGKITISSLQDL SIYNPERTITVKGTIEACASAEMEIMKKLREAFENDMLAVN  
 QQANLIPGLNLSALGIFSTGLSVLPPPAGPRGAPPSPPYHPFATHSGYFSSLYPHHHFGPFPHHHSYPEQ  
 ETVSLFIPTQAVGAIIGKKGAHIKQLARFAGASIKIAPAEKPDVSEKRVIIITGPPEAQFKAQGRIFGKLL  
 EENFFNPKKEVKLEAHIRVPSSTAGRVIGKGGKTVNELQNL TSAEIVIPRDQTPDENEEVIRIIGHFFA  
 SQTARQKIREIVQQVQQAQKYPQGVAPQRSK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001270598

**ORF Size:** 1776 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\\_001270598.1](#), [NP\\_001257527.1](#)

**RefSeq Size:** 3629 bp

**RefSeq ORF:** 1779 bp

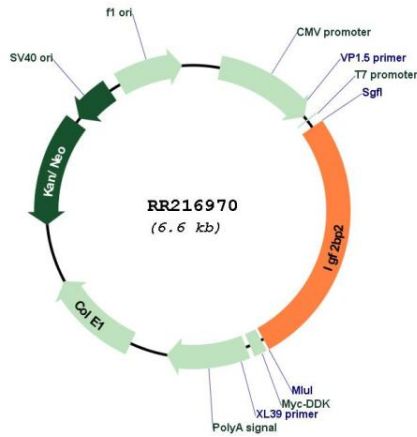
**Locus ID:** 303824

**Cytogenetics:** 11q23

MW: 65.4 kDa

Gene Summary: The protein encoded by this gene is a member of a family of mRNA binding proteins that have been shown to bind to several different mRNAs in mammalian cells, including insulin-like growth factor 2 mRNA. Generation of two different isoforms by alternative translation initiation at an internal start codon, has been described for this gene (PMID:22427968). [provided by RefSeq, Jul 2012]

Product images:



Circular map for RR216970