

Product datasheet for **RG205673**

IGF2BP2 (NM_006548) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGF2BP2 (NM_006548) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IGF2BP2
Synonyms:	IMP-2; IMP2; VICKZ2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205673 representing NM_006548
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACAAGCTTTACATCGGGAACCTGAGCCCCGCGTCAACCGCAGCAGCTCCGGCAGCTCTTTGGGG
 ACAGGAAGCTGCCCTGGCGGGACAGGTCTGCTGAAAGTCCGGCTACGCCTTCGTGGACTACCCGACCA
 GAACTGGGCCATCCGCGCCATCGAGACCTCTCGGGTAAAGTGAATTGCATGGGAAAATCATGGAAGTT
 GATTACTCAGTCTCTAAAAAGCTAAGGAGCAGGAAAATTCAGATTGAAACATCCCTCTCACCTGCAGT
 GGGAGGTGTTGGATGGACTTTTGGCTCAATATGGGACAGTGGAGAATGTGGAACAAGTCAACACAGACAC
 AGAAACC GCCGTGTCAACGTACATATGCAACAAGAGAAGAAGCAAAAATAGCCATGGAGAAGCTAAGC
 GGGCATCAGTTTGAGAACTACTCCTTCAAGATTTCTACATCCCGGATGAAGAGGTGAGCTCCCCTTCGC
 CCCCTCAGCGAGCCAGCGTGGGACCCTCTCCGGGAGCAAGGCCACGCCCTGGGGCACTTCTCA
 GGCCAGACAGATTGATTTCCCGTGCAGTCTGGTCCCACCCAGTTTGTGGTCCCATCATCGGAAAG
 GAGGGCTTGACATAAAGAACATCACTAAGCAGACCCAGTCCCGGTAGATATCCATAGAAAAGAGAAGT
 CTGGAGCTGCAGAGAAGCTGTCAACATCCATGCCACCCAGAGGGGACTTCTGAAGCATGCCGCATGAT
 TCTTGAATCATGCAGAAAGAGGCAGATGAGACAAAAGTACCCGAAGAGATTCTCTGAAAATCTTGGCA
 CACAATGGCTTGGTTGGAAGACTGATTGGAAAAGAAGGCAGAAAATTTGAAGAAAATGAACATGAAACAG
 GGACCAAGATAACAATCTCATCTTTGCAGGATTTGAGCATATAACAACCCGAAAGAACCATCACTGTGAA
 GGGCACAGTTGAGGCCTGTGCCAGTGTGAGATAGAGATTATGAAGAAGCTGCGTGAAGCCCTTTGAAAAT
 GATATGCTGGCTGTTAACCAACAAGCCAATCTGATCCCAGGTTGAACCTCAGCGCACTTGGCATCTTTT
 CAACAGGACTGTCCGTGCTATCTCCACCAGCAGGGCCCCGCGGAGCTCCCCCGCTGCCCTACCCCT
 CTTCACTACCCACTCCGGATACTTCTCCAGCCTGTACCCCATACCCAGTTTGGCCCGTTCGCCCATCAT
 CACTCTTATCCAGAGCAGGAGATTGTGAATCTTCTCATCCCAACCAGGCTGTGGCGCCATCATCGGGA
 AGAAGGGGGCACACATCAAAACAGCTGGCGAGATTCCGCGGAGCCTCTATCAAGATTGCCCTGCGGAAGG
 CCCAGACGTCAGCGAAAGGATGGTCATCATCACCGGGCCACCGAAGCCAGTTCAAGGCCAGGGACGG
 ATCTTTGGGAAACTGAAAGAGGAAAACCTCTTTAACCCAAAGAAGAAGTGAAGCTGGAAGCGCATATCA
 GAGTGCCTCTTCCACAGCTGGCCGGTGATTGGCAAAGTGGCAAGACCGTGAACGAACTGCAGAACTT
 AACCATGCAGAAAGTATCGTGCCTCGTGACCAAACGCCAGATGAAAATGAGGAAGTATCGTCAGAAAT
 ATCGGGCACTTCTTTGCTAGCCAGACTGCACAGCGCAAGATCAGGGAAAATGTACAACAGGTGAAGCAGC
 AGGAGCAGAAAATACCCTCAGGGAGTCGCTCACAGCGCAGCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205673 representing NM_006548
 Red=Cloning site Green=Tags(s)

MNKLYIGNLSPAVTADDLRQLFGDRKLPLAGQVLLKSGYAFVDYPDQNWAIETLSGKVELHGKIMEV
 DYSVSKLRSRKIQIRNIPPHLQWEVLDGLLAQYGTVENVEQVNTDTETAVVNVYATREEAKIAMEKLS
 GHQFENYSFKISYIPDEEVSSPSPQRAQRGDHSSREQGHAPGGTSQARQIDFPLRILVPTQFVGAIIIGK
 EGLTIKNIKQTQSRVDIHRKENSAAEKPVTHATPEGTSEACRMILEIMQKEADETKLAEIPLKILA
 HNGLVGRILIGKEGRNLKIEHETGKITISSLQDL SIYNPERTITVKGTVEACASAEIEIMKKLREAFEN
 DMLAVNQANLIPGLNLSALGIFSTGLSVLSPAGPRGAPPAAPYHPFTTHSGYFSSLYPHHQFGPFPHH
 HSYPEQEIYNLFIPTQAVGAIIGKKGAHIKQLARFAGASIKIAPAEGPDVSERMVITGPPEAQFKAQGR
 IFGKLLKEENFFNPKEEVKLEAHIRVPSSTAGRVIKGGKTVNELQNL TSAEVIVPRDQTPDENEVIVRI
 IGHFFASQTAQRKIREIVQVQKQEQKYPQGVASQRSK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006548

ORF Size: 1794 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_006548.3](#)

RefSeq Size: 3676 bp

RefSeq ORF: 1800 bp

Locus ID: 10644

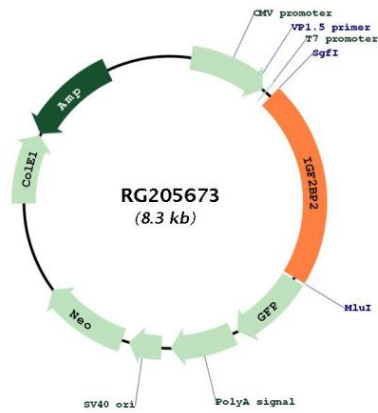
UniProt ID: [Q9Y6M1](#)

Cytogenetics: 3q27.2

Domains: RRM, KH

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]

Product images:



Circular map for RG205673