

Product datasheet for **RG209150**

IGFBP3 (NM_000598) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IGFBP3 (NM_000598) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IGFBP3
Synonyms: BP-53; IBP3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209150 representing NM_000598
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGCGGGCGCGACCCACGCTCTGGGCCGCTGCGCTGACTCTGCTGGTGTGCTCCGCGGGCCGCCGG
 TGGCGCGGGCTGGCGGAGCTCGCGGGCTTGGTCCCCTGGTGCCTGCGAGCCGTGCGACGCGGTGC
 ACTGGCCAGTGCAGCCTCCGCCCGCTGTGCGCGGAGCTGGTGCAGCCGGGCTGCGGCTGCTGC
 CTGACGTGCGCACTGAGCGAGGGCCAGCCGTGCGGCATCTACACCGAGCGCTGTGGCTCCGGCTTCGT
 GCCAGCCGTGCGCGACGAGGCGCGACCCGTGCAGGCGCTGCTGGACGGCCGGGCTCTGCGTCAACGC
 TAGTGCCGTGAGCCGCTGCGCGCTACCTGCTGCCAGCGCCAGCTCCAGGAAATGCTAGTGAGTCG
 GAGGAAGACCGCAGCGCCGGCAGTGTGGAGAGCCGTCCTCCAGCACGCACCGGGTGTCTGATCCCA
 AGTTCCACCCCTCCATTCAAAGATAATCATCATCAAGAAAGGGCATGCTAAAGACAGCCAGCGCTACAA
 AGTTGACTACGAGTCTCAGAGCACAGATACCCAGAACTTCTCCTCCGAGTCCAAGCGGGAGACAGAATAT
 GGTCCCTGCCGTAGAGAAATGGAAGACACACTGAATCACCTGAAGTTCTCAATGTGCTGAGTCCCAGGG
 GTGTACACATCCCAACTGTGACAAGAAGGATTTATAAGAAAAAGCAGTGTGCGCCTTCCAAAGGCAG
 GAAGCGGGGCTTCTGCTGGTGTGTGGATAAGTATGGGCAGCCTCTCCAGGCTACACCACCAAGGGGAAG
 GAGGACGTGACTGCTACAGCATGCAGAGCAAG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209150 representing NM_000598
Red=Cloning site Green=Tags(s)

MQRARPTLWAAAL TLLVLLRGPPVARAGASSAGLGPVVRCEPCDARALAQCAPPVAVCAELVREPGCGCC
 LTCALSEGQPCGIYTERCGSLRCQSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAGNASES
 EEDRSAGSVESPSVSSTHRVSDPKFHPLHSKII I I K K G H A K D S Q R Y K V D Y E S Q S T D T Q N F S S E S K R E T E Y
 GPCRREMEDTLNHLKFLNVLSPRGVHIPNCDKKG FY K K K Q C R P S K G R K R G F C W C V D K Y G Q P L P G Y T T K G K
 EDVHCYSMQSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000598

ORF Size: 873 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_000598.5](#)

RefSeq Size: 2620 bp

RefSeq ORF: 876 bp

Locus ID: 3486

UniProt ID: [P17936](#)

Cytogenetics: 7p12.3

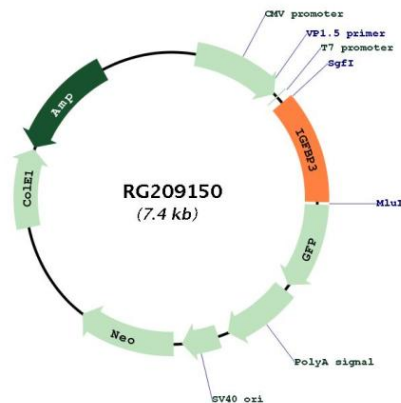
Domains: thyroglobulin_1, IB

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: p53 signaling pathway

Gene Summary: This gene is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein forms a ternary complex with insulin-like growth factor acid-labile subunit (IGFALS) and either insulin-like growth factor (IGF) I or II. In this form, it circulates in the plasma, prolonging the half-life of IGFs and altering their interaction with cell surface receptors. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209150