

## Product datasheet for **RG209268**

### IGFBP1 (NM\_000596) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IGFBP1 (NM_000596) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IGFBP1
Synonyms:	AFBP; hIGFBP-1; IBP1; IGF-BP25; PP12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209268 representing NM_000596 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAGAGGTCCCCGTTGCTCGCGTCTGGCTGGTACTGCTCCTGCTGACTGTCCAGGTCGGCGTGACAG  
CCGGCGCTCCGTGGCAGTGCAGCGCCCTGCTCCGCCGAGAAGCTCGCGCTCTGCCCGCGGTGTCCGCCTC  
GTGCTCGGAGGTCACCCGGTCCGCCGGCTGCGGCTGTTGCCCGATGTGCGCCCTGCCTCTGGCGCCGCG  
TGGCGGTGGCGACTGCACGCTGCGCCCGGGACTCAGTTGCCGCGCGCTGCCGGGGAGCAGCAACCTC  
TGCACGCCCTCACCCGCGCCAAGGCGCCTGCGTGCAGGAGTCTGACGCCTCCGCTCCCCATGCTGCAGA  
GGCAGGGAGCCCTGAAAGCCCAGAGAGCACGGAGATAACTGAGGAGGAGCTCCTGGATAATTTCCATCTG  
ATGGCCCCTTCTGAAGAGGATCATTCCATCCCTTGGGACGCCATCAGTACCTATGATGGCTCGAAGGCTC  
TCCATGTCACCAACATCAAAAAATGGAAGGAGCCCTGCCGAATAGAACTCTACAGAGTCGTAGAGAGTTT  
AGCCAAGGCACAGGAGACATCAGGAGAAGAAATTTCCAAATTTTACCTGCCAAACTGCAACAAGAATGGA  
TTTTATCACAGCAGACAGTGTGAGACATCCATGGATGGAGAGGCGGGACTCTGCTGGTGCCTACCCCT  
GGAATGGGAAGAGGATCCCTGGGTCTCCAGAGATCAGGGGAGACCCCAACTGCCAGATATATTTTAAATGT  
ACAAAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG209268 representing NM\_000596  
 Red=Cloning site Green=Tags(s)

MSEVPPVARVWLVLVLLLVTVQVGVTAGAPWQCAPCSAEKLALCPPVSASCSEVTRSAGCGCCPMCALPLGAA  
 CGVATARCARGLSCRALPGEQQPLHALTRGQACVQESDASAPHAAEAGSPESPESTEITEEELLDNFHL  
 MAPSEEDHSIPWDAISTYDGSKALHVTNIKKWKEPCRIELYRVVESLAKAQETSGEEISKFYLPNCNKNG  
 FYHSRQCETSMIDGEAGLCWCVYPWNGKRIPGSPEIRGDPNCQIYFNVQN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000596

**ORF Size:** 777 bp

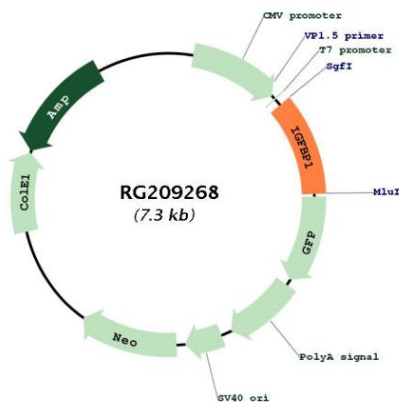
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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_000596.2</a> , <a href="#">NP_000587.1</a>
<b>RefSeq Size:</b>	1660 bp
<b>RefSeq ORF:</b>	780 bp
<b>Locus ID:</b>	3484
<b>UniProt ID:</b>	<a href="#">P08833</a>
<b>Cytogenetics:</b>	7p12.3
<b>Domains:</b>	thyroglobulin_1, IB
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein
<b>Gene Summary:</b>	This gene is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP N-terminal domain and a thyroglobulin type-I domain. The encoded protein, mainly expressed in the liver, circulates in the plasma and binds both insulin-like growth factors (IGFs) I and II, prolonging their half-lives and altering their interaction with cell surface receptors. This protein is important in cell migration and metabolism. Low levels of this protein may be associated with impaired glucose tolerance, vascular disease and hypertension in human patients. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG209268