

## Product datasheet for **RG207777**

### Intrinsic Factor (GIF) (NM\_005142) Human Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Intrinsic Factor (GIF) (NM_005142) Human Tagged ORF Clone                   |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | Intrinsic Factor                                                            |
| Synonyms:                 | GIF; IF; IFMH; INF; TCN3                                                    |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG207777 representing NM_005142<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGGCCTGGTTTGCCTCTACCTCCTGAGCCTTCTCTGGGCTACAGCTGGGACTAGTACCCAGACCCAGA  
 GTTCATGCTCCGTTCCCTCAGCACAGGAGCCCTTGGTCAATGGAATACAAGTACTCATGGAGAACTCGGT  
 GACTTCATCAGCCTACCCAAACCCAGCATCCTGATTGCCATGAATCTGGCCGGAGCCTACAACCTTGAAG  
 GCCCAGAAGCTCCTGACTTACCAGCTCATGTCCAGCGACAACAACGATCTAACCATTGGGCAGCTCGGCC  
 TCACCATCATGGCCCTCACCTCCTCTGCCGAGACCCTGGGGATAAAGTATCCATTCTACAAAGACAAAT  
 GGAGAAGTGGGCACCTTCCAGCCCCAACGCTGAAGCATCAGCCTTCTATGGGCCAGTCTAGCGATCTTG  
 GCACTGTGCCAGAAGAACTCTGAGGCGACCTTGCCGATAGCCGTCGCTTTGCCAAGACCCTGCTGGCCA  
 ACTCCTCTCCCTTCAATGTAGACACAGGAGCAATGGCAACCTTGGCTCTGACCTGTATGTACAACAAGAT  
 CCCTGTAGGTTTACAGGAAGGTTACAGATCCCTGTTTGGTCAGGTACTAAAGGATATTGTGGAGAAAATC  
 AGCATGAAGATCAAAGATAATGGCATCATTGGAGACATCTACAGTACTGGCCTCGCCATGCAAGGCTCTCT  
 CTGTAACACCTGAGCCATCTAAAAGGAATGGAAGTCAAGAAAGACTACGGATATGATACTCAATGAGAT  
 TAAGCAGGGGAAATTCACAACCCCATGTCCATTGCTCAAATCCTCCCTCCCTGAAAGGCAAGACATAC  
 CTAGATGTGCCCCAGGTCACTTGTAGTCTGATCATGAGGTACAACCAACTCTACCCAGCAACCCCTGGCC  
 CTGGCCCCACCTCTGCATCTAATCACTGTCTATACACCATAAATAACCAAGCTGAGGGGGGTTGAGCT  
 GCTCTTCAACGAGACCATCAATGTTAGTGTGAAAAGTGGGTCACTGTTACTTGTGTCTAGAGGAAGCA  
 CAGCGCAAAAATCCTATGTTCAAATTTGAAACCACAATGACATCTGGGGCCTTGTCTCTCTTCTATCA  
 ACAATATCGCGGAAAATGTTAATCACAAGACATACTGGCAGTTTCTTAGTGGTGAACACCTTTGAATGA  
 AGGGGTTGCTGACTACATACCCTTCAACCACGAGCACATCACAGCCAATTTACACAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207777 representing NM\_005142  
 Red=Cloning site Green=Tags(s)

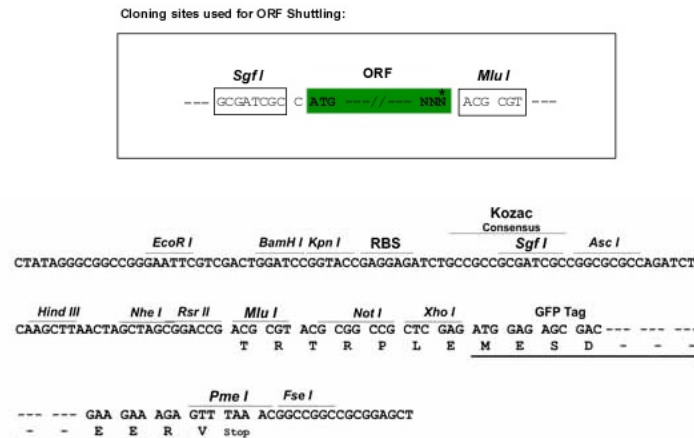
MAWFALYLLSLLWATAGTSTQTQSSCSVPSAQEPLVNGIQVLMENSVTSSAYPNPSILIAMNLGAYNLK  
 AQKLLTYQLMSSDNDLTIGQLGLTIMALTSSCRDPGDKVSILQRQMENWAPSSPNAEASAFYGPSLAIL  
 ALCQKNSEATLPIAVRFKTLANSSPFNVDTGAMATLALTCMYNKIPVGSEEGYRSLFGQVLKDIVEKI  
 SMKIKDNGIIGDIYSTGLAMQALSVTPEPSKKEWNCKTTDMILNEIKQKGFHNPMMSIAQILPSLKGKTY  
 LDVPQVTCSPDHEVQPTLPSNPGPGPTSASNITVIYTTINNQLRGVELLFNETINVSVKSGSVLLVLEEAA  
 QRKNPMFKFETMTSWGLVSVSSINNIAENVNHKTYWQFLSGVTPLNEGVDYIPFNHEHITANFTQY

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005142

**ORF Size:** 1251 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_005142.3](#)

**RefSeq Size:** 1536 bp

**RefSeq ORF:** 1254 bp

**Locus ID:** 2694

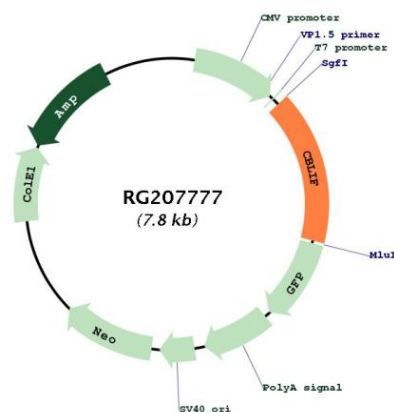
**UniProt ID:** [P27352](#)

**Cytogenetics:** 11q12.1

**Protein Families:** Secreted Protein

**Gene Summary:** This gene is a member of the cobalamin transport protein family. It encodes a glycoprotein secreted by parietal cells of the gastric mucosa and is required for adequate absorption of vitamin B12. Vitamin B12 is necessary for erythrocyte maturation and mutations in this gene may lead to congenital pernicious anemia. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG207777