

Product datasheet for RC207777

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:	Myc-DDK
Symbol:	Intrinsic Factor
Synonyms:	GIF; IF; IFMH; INF; TCN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207777 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCTGGTTTGCCTCTACCTCCTGAGCCTTCTCTGGGCTACAGCTGGGACTAGTACCCAGACCCAGA
 GTTCATGCTCCGTTCCCTCAGCACAGGAGCCCTTGGTCAATGGAATACAAGTACTCATGGAGAACTCGGT
 GACTTCATCAGCCTACCCAAACCCAGCATCCTGATTGCCATGAATCTGGCCGGAGCCTACAACCTTGAAG
 GCCCAGAAGCTCCTGACTTACCAGCTCATGTCCAGCGACAACAACGATCTAACCATTGGGCAGCTCGGCC
 TCACCATCATGGCCCTCACCTCCTCTGCCGAGACCCTGGGGATAAAGTATCCATTCTACAAAGACAAAT
 GGAGAAGTGGGCACCTTCCAGCCCCAACGCTGAAGCATCAGCCTTCTATGGGCCAGTCTAGCGATCTTG
 GCACTGTGCCAGAAGAACTCTGAGGCGACCTTGCCGATAGCCGTCGCTTTGCCAAGACCCTGCTGGCCA
 ACTCCTCTCCCTTCAATGTAGACACAGGAGCAATGGCAACCTTGGCTCTGACCTGTATGTACAACAAGAT
 CCCTGTAGGTTTACAGGAAGGTTACAGATCCCTGTTTGGTCAGGTAATAAGGATATTGTGGAGAAAATC
 AGCATGAAGATCAAAGATAATGGCATCATTGGAGACATCTACAGTACTGGCCTCGCCATGCAAGGCTCTCT
 CTGTAACACCTGAGCCATCTAAAAGGAATGGAAGTCAAGAAAGTACGGATATGATACTCAATGAGAT
 TAAGCAGGGGAAATTCACAACCCCATGTCCATTGCTCAAATCCTCCCTCCCTGAAAGGCAAGACATAC
 CTAGATGTGCCCCAGGTCACTTGTAGTCTGATCATGAGGTACAACCAACTCTACCCAGCAACCCCTGGCC
 CTGGCCCCACCTCTGCATCTAACATCACTGTATACACCATAAATAACCAAGCTGAGGGGGGTTGAGCT
 GCTCTTCAACGAGACCATCAATGTTAGTGTGAAAAGTGGGTGAGTGTACTTGTGTCTAGAGGAAGCA
 CAGCGCAAAAATCCTATGTTCAAATTTGAAACCACAATGACATCTGGGGCCTTGTCTCTCTTCTATCA
 ACAATATCGCGGAAATGTTAATCACAAGACATACTGGCAGTTTCTTAGTGGTGAACACCTTTGAATGA
 AGGGGTTGCTGACTACATACCCTTCAACCACGAGCACATCACAGCAATTTACACAGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC207777 protein sequence
 Red=Cloning site Green=Tags(s)

MAWFALYLLSLLWATAGTSTQTQSSCSVPSAQEPLVNGIQVLMENSVTSSAYPNPSILIAMNLGAYNLK
 AQKLLTYQLMSSDNDLTIGQLGLTIMALTSSCRDPGDKVSILQRQMENWAPSSPNAEASAFYGPSLAIL
 ALCQKNSEATLPIAVRFAKTLANSSPFNVDTGAMATLALTCMYNKIPVGSEEGYRSLFGQVLKDIVEKI
 SMKIKDNGIIGDIYSTGLAMQALSVTPEPSKKEWNCKTTDMILNEIKQKGFHNPMMSIAQILPSLKGKTY
 LDVPQVTCSPDHEVQPTLPSNPGPGPTSASNITVIYTTINNQLRGVELLFNETINVSVKSGSVLLVLEEAA
 QRKNPMFKFETMTSWGLVSVSSINNIENVNHKTYWQFLSGVTPLNEGVDYIPFNHEHITANFTQY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6516_d01.zip

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](#)

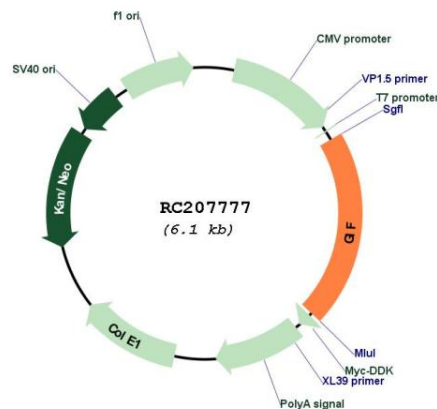
Cytogenetics: 11q12.1

Protein Families: Secreted Protein

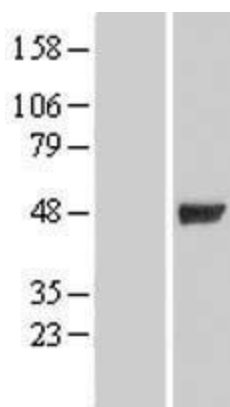
MW: 45.4 kDa

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]

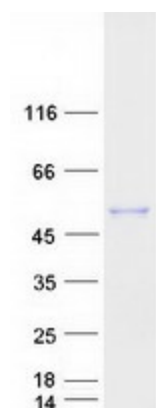
Product images:



Circular map for RC207777



Western blot validation of overexpression lysate (Cat# [LY417460]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207777 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CBLIF protein (Cat# [TP307777]). The protein was produced from HEK293T cells transfected with CBLIF cDNA clone (Cat# RC207777) using MegaTran 2.0 (Cat# [TT210002]).