

Product datasheet for RC215594

IGF2R (NM_000876) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | IGF2R (NM_000876) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | IGF2R |
| Synonyms: | CD222; CI-M6PR; CIMPR; M6P-R; M6P/IGF2R; MPR1; MPR 300; MPR300; MPRI |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC215594 representing NM_000876 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGGGCCGCCCGCGGAGCCCCACCTGGGGCCCGCCCGCCCGCCCGCCGAGCGCTCTCTGC
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CGCCATGCAGAACCAGAGCAGAATTGGGAAGCTGTGGATGGCAGTCAGACGGAAACAGAGAAGAAGCATT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215594 representing NM_000876
 Red=Cloning site Green=Tags(s)

MGAAAGRSPHLGPAPARRPQRSLLLLQLLLLVAAPGSTQAQAAPFPELCSYTWEAVDTKNNVLYKINICG
 SVDIVQCGPSSAVCMHDLKTRTYHSVGDVLSRSTRSLLEFNNTVSCDQQTNRHVQSSIAFLCGKTLGT
 PEFVTATECVHYFEWRTTAACKKIDIFKANKEVPCYVFDEELRKHDLNPLIKLSGAYLVDDSDPDTSLFIN
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 QGKEGQENGHITTKSVKALSSLHGDDQDSEDEVLTIPEVKVHSGRGAGAESSHVPRNAQSNALQEREDDR
 VGLVRGEKARKGKSSSAQQKTVSSTKLVSFHDDSDDEDLHI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_000876

ORF Size: 7473 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 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.

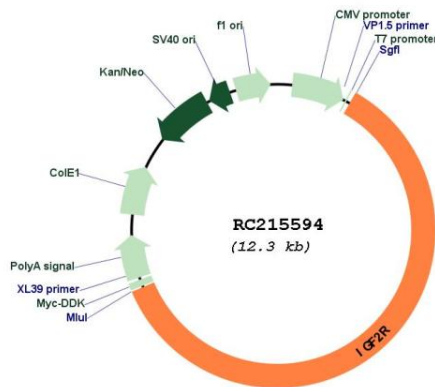
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_000876.4](#)

| | |
|-------------------|---|
| RefSeq Size: | 9090 bp |
| RefSeq ORF: | 7476 bp |
| Locus ID: | 3482 |
| UniProt ID: | P11717 |
| Cytogenetics: | 6q25.3 |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Lysosome |
| MW: | 274.26 kDa |
| Gene Summary: | This gene encodes a receptor for both insulin-like growth factor 2 and mannose 6-phosphate. The binding sites for each ligand are located on different segments of the protein. This receptor has various functions, including in the intracellular trafficking of lysosomal enzymes, the activation of transforming growth factor beta, and the degradation of insulin-like growth factor 2. Mutation or loss of heterozygosity of this gene has been association with risk of hepatocellular carcinoma. The orthologous mouse gene is imprinted and shows exclusive expression from the maternal allele; however, imprinting of the human gene may be polymorphic, as only a minority of individuals showed biased expression from the maternal allele (PMID:8267611). [provided by RefSeq, Nov 2015] |

Product images:



Circular map for RC215594