

Product datasheet for **RG215594**

IGF2R (NM_000876) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGF2R (NM_000876) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IGF2R
Synonyms:	CD222; CI-M6PR; CIMPR; M6P-R; M6P/IGF2R; MPR1; MPR 300; MPR300; MPRI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215594 representing NM_000876 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCCGCCCGCGGAGCCCCACCTGGGGCCCGCCCGCCCGCCCGCCGAGCGCTCTCTGC
TCCTGCTGCAGCTGCTGCTGCTCGTCGTCGCCCGGGTCCACGCAGGCCAGGCCGCCCGTTCCCCGA
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CCACCAAGCTGGTGTCTTCCATGACGACAGCAGGAGGACCTTTACACATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG215594 representing NM_000876
 Red=Cloning site Green=Tags(s)

MGAAAGRSPHLGPAPARRPQRSLLLLQLLLLVAAPGSTQAQAAPFPELCSYTWEAVDTKNNVLYKINICG
 SVDIVQCGPSSAVCMHDLKTRTYHSVGDVLSRSTRSLEFNNTVSCDQQTNRHVQSSIAFLCGKTLGT
 PEFVTATECVHYFEWRTTAACKKIDIFKANKEVPCYVDFEELRKHDLNPLIKLSGAYLVDDSDPDTSLFIN
 VCRDIDTLRDPGSQLRACPPGTAACLVRGHQAFDVGQPRDGLKLRKDRLVLSYVREEAGKLDKDFCDGHS
 AVTITFVCPSEERREGTIPKLTAKSNCRYEIEWITEYACHRDYLESKTCSLSGEQQDVSIDLTPLAQSGGS
 SYISDGKEYLFYLVNCGETEIQFCNKKQAAVCQVKSSTSQVKAAGRYHNQTLRYSDGDLTLIYFGDEC
 SSGFQRMVSVINFECKNTAGNDGKGPVFTGEVDCTYFFTWDEYACVKEKEDLLCGATDGKKRYDLSALV
 RHAEPQNWAEVDGSQTETEKHHFFINICHRVLQEGKARGCPEDAAVCAVDKNGSKNLGKFISSPMKEKG
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 EHYLINVCKSLAPQAGTEPCPEAAACLGGSKPVNLGRVDRDGPQRDGIIVLKYVDGDLCPDGIRKST
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 AYSEKGLVYMSICGENENCPPGVGACFGQTRISVGKANKRLRYVDQVQLVYKDGSPCPSKSGLSYKSVI
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 SLLLVALTCLLALLLYKKERRETVISKLTCCRRSSNVSYKYSKVNKEEETDENETEWLMEEIQLPPPR
 QGKEGQENGHITTKSVKALSSLHGDDQDSEDEVLTIPEVKVHSGRGAGAESSHVPVRNAQSNALQEREDDR
 VGLVRGEKARKGKSSSAQQTVSSTKLVSFHDDSDDELHLHI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_000876.1 , NP_000867.1
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

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 associated 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]