

Product datasheet for **RC600009**

IGF1 Receptor (IGF1R) (NM_000875) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGF1 Receptor (IGF1R) (NM_000875) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	IGF1 Receptor
Synonyms:	CD221; IGFIR; IGF1R; JTK13
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RC600009 representing leader sequence plus the extracellular domain region of NM_000875 Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
CGATCGCC

ATGAAGTCTGGCTCCGGAGGAGGGTCCCCGACCTCGCTGTGGGGCTCCTGTTTCTCTCCGCCGCGCTCT
CGCTCTGGCCGACGAGTGGAGATGTCATGCAAGTGGCCAACACCACCATGTCCAGCCGAAGCAGGAACAC
CACGGCCGACACCTACAACATCACCGACCCGGAAGAGCTGGAGACAGAGTACCCTTTCTTTGAGAGC
AGAGTGGATAACAAGGAGAGAAGTGTCAATTTCTAACCTTCGGCCTTTCACATTGTACCGCATCGATATCC
ACAGCTGCAACCACGAGGCTGAGAAGCTGGGCTGCAGCGCCTCCAATTGCTTTGCAAGGACTATGCC
CGCAGAAGGAGCAGATGACATTCCTGGGCCAGTGACCTGGGAGCCAAGGCCTGAAAACCTCATCTTTTTA
AAGTGGCCGGAACCTGAGAATCCCAATGGATTGATTCTAATGTATGAAATAAAATACGGATCACAAGTTG
AGGATCAGCGAGAATGTGTGCCAGACAGGAATACAGGAAGTATGGAGGGGCCAAGCTAAACCGGCTAAA
CCCGGGAACTACACAGCCCGGATTCAGGCCACATCTCTCTCTGGGAATGGGTCGTGGACAGATCCTGTG
TTCTTCTATGTCCAGGCCAAAACAGGATATGAAAACCTTCATCCAT

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAAATGAGATC
TGGTACCGATATCAAGCTTGTGACTCTAGA



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Protein Sequence: >RC600009 representing signal peptide plus the extracellular domain region of NM_000875
 Red=Cloning sites Green= DDK and 6XHIS Tags

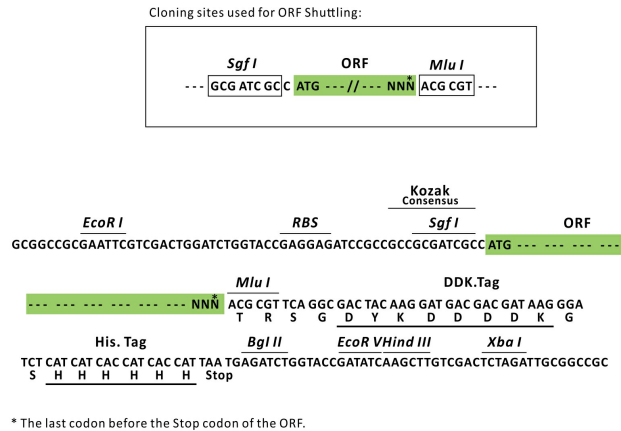
MKSGSGGGSPSTLWGLLFLSAALSLWPTSGDVMQVANTTMSRSRNTTAADTYNITDPEELETEYPPFFES
 RVDNKERTVISNLRPFTLYRIDIHSCNHEAEKLGCSASNFVFARTMPAEGADDIPGPVTWEPRPENSIFL
 KWPEPENPNGLILMYEIKYGSQVEDQRECVSRQEYRKYGGAKLNRLNPGNYTARIQATSLSGNGSWTDPV
 FFYVQAKTGYENFIH

TRSGTRSGDYKDDDDKGSHHHHHH

Chromatograms: https://cdn.origene.com/chromatograms/mk8117_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000875

ORF Size: 4104 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 extra cellular domain of the protein 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_000875.3 , NP_000866.1
RefSeq Size:	12235 bp
RefSeq ORF:	4104 bp
Locus ID:	3480
UniProt ID:	P08069
Cytogenetics:	15q26.3
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Adherens junction, Colorectal cancer, Endocytosis, Focal adhesion, Glioma, Long-term depression, Melanoma, Oocyte meiosis, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer
MW:	25.2 kDa
Gene Summary:	This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014]