

Product datasheet for **SC338020**

IGF1 Receptor (IGF1R) (NM_001291858) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGF1 Receptor (IGF1R) (NM_001291858) Human Untagged Clone
Tag:	Tag Free
Symbol:	IGF1R
Synonyms:	CD221; IGFI; IGFIR; JTK13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001291858, the custom clone sequence may differ by one or more nucleotides

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ATGAAGTCTGGCTCCGGAGGAGGGTCCCGACCTCGTGTGGGGCTCCTGTTTCTCTCCGCCGCTCT
CGCTCTGGCCGACGAGTGGAGAAATCTGCGGGCCAGGCATCGACATCCGCAACGACTATCAGCAGCTGAA
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GACGTCTGCATTTACCTCCACCACCGTGAAGAATCGCATCATATAACCTGGCACCGGTACCGGC
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GTATGATGGGCAGGATGCCTGCGGCTCCAACAGCTGGAACATGGTGGACGTGGACCTCCCGCCCAACAAG
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ACAAGTGCCTCGGAGCCGAGGAGCTGGACCTGGAGCCAGAGAACATGGAGAGCGTCCCTTGGACCCCTC
GGCCTCCTCGTCTCCCTGCCACTGCCCGACAGACACTCAGGACACAAGGCCGAGAACGGCCCCGGCCCT
GGGGTGTGGTCTCCGCGCCAGCTTCGACGAGAGACAGCCTTACGCCACATGAACGGGGGCCGAAGA
ACGAGCGGGCCTTGCCGTGCCCAAGTCTTCGACCTGCTGA
    
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001291858
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001291858.1](#), [NP_001278787.1](#)

RefSeq Size: 12259 bp

RefSeq ORF: 4101 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

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]

Transcript Variant: This variant (2) has an alternate splice site in the coding region, compared to variant 1. The resulting isoform (2) is one aa shorter and has a different internal aa, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.