

Product datasheet for **SC300143**

IGF2R (NM_000876) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGF2R (NM_000876) Human Untagged Clone
Tag:	Tag Free
Symbol:	IGF2R
Synonyms:	CD222; CI-M6PR; CIMPR; M6P-R; M6P/IGF2R; MPR1; MPR 300; MPR300; MPRI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000876 edited
 ATGGGGGCCCGCCCGCGGAGCCCCACCTGGGGCCCGCCCGCCCGCCCGCAG
 CGCTCTCTGCTCCTGCTGCAGCTGCTGCTGCTGCTGCTGCTGCCCGGGTCCACGCAGGCC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000876 unedited
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000876 unedited
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GTGGGAGCTCTGCCCCAGCTCCCTGCCCGAGTGAATTTACCTCTGGGATGGTCAG
AACCTCATCCTCACTGTCTGTATCCCCATGCAGGAGCTGAGGGCTTTCCTGACTTGT
GTATATGGCCGTCTCCTGCCCTCTTTCCCTGCGTGAGAGCAGCTGATCTCTATCAGC
CACTCTGTTTCATCTCATCTGTCTTCTTATTCACTTGAGTATTTGTAGAACACGTG
ACTCTCTACGCAAT

Restriction Sites:

Please inquire

ACCN:

NM_000876

Insert Size:

7900 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:	There is 4 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 4 aa.
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:	<u>NM_000876.1</u> , <u>NP_000867.1</u>
RefSeq Size:	9090 bp
RefSeq ORF:	7476 bp
Locus ID:	3482
UniProt ID:	<u>P11717</u>
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 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]