

## Product datasheet for SC124152

### IGF1 Receptor (IGF1R) (NM\_000875) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IGF1 Receptor (IGF1R) (NM\_000875) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** IGF1 Receptor  
**Synonyms:** CD221; IGFI; IGF; JTK13  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_000875 edited  
 ATGAAGTCTGGCTCCGGAGGAGGGTCCCCGACCTCGCTGTGGGGCTCCTGTTTCTCTCC  
 GCCGCGCTCTCGCTCTGGCCGACGAGTGGAGAAATCTGCGGGCCAGGCATCGACATCCG  
 AACGACTATCAGCAGCTGAAGCGCTGGAGAACTGCACGGTGATCGAGGGCTACCTCCAC  
 ATCCTGCTCATCTCCAAGCCGAGGACTACCGCAGCTACCGCTTCCCAAGCTCACGGTC  
 ATTACCGAGTACTTGCTGCTGTTCCGAGTGGCTGGCCTCGAGAGCCTCGGAGACCTTTC  
 CCCAACCTCACGGTCATCCGCGGCTGGAACTCTTCTACAACCTACGCCCTGGTCATCTTC  
 GAGATGACCAATCTCAAGGATATTGGGCTTTACAACCTGAGGAACATTACTCGGGGGGCC  
 ATCAGGATTGAGAAAAATGCTGACCTCTGTTACCTCTCCACTGTGGACTGGTCCCTGATC  
 CTGGATGCGGTGTCCAATAACTACATTGTGGGGAATAAGCCCCAAAGGAATGTGGGGAC  
 CTGTGTCCAGGGACCATGGAGGAGAAGCCGATGTGTGAGAAGACCACCATCAACAATGAG  
 TACAACCTACCGCTGCTGGACCACAAACCGCTGCCAGAAAATGTGCCAAGCACGTGTGG  
 AAGCGGGCGTGCACCGAGAAACAATGAGTGTGCCACCCCGAGTGCCTGGGCGAGTGCAGC  
 GCGCCTGACAACGACACGGCCTGTGTAGCTTGCCGCCACTACTACTATGCCGGTGTCTGT  
 GTGCCCTGCCTGCCCGCCAAACACCTACAGGTTTGGGGCTGGCGCTGTGTGGACCGTGAC  
 TTCTGCGCAACATCCTCAGCGCCGAGAGCAGCGACTCCGAGGGGTTTGTGATCCACGAC  
 GGCGAGTGCATGCAGGAGTGCCTCGGGCTTCCGCAACGGCAGCCAGAGCATGTAC  
 TGCATCCCTTGTGAAGTCTTGGCCGAAGTCTGTGAGGAAGAAAAGAAAACAAGACC  
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 CTCATTAACATCCGACGGGGAATAACATTGCTTCAGAGCTGGAGAACTTCATGGGGCTC  
 ATCGAGGTGGTGACGGGCTACGTGAAGATCCGCCATTCTCATGCCTTGGTCTCCTTGTC  
 TTCCTAAAAAACCTTCGCCTCATCTAGGAGAGGAGCAGCTAGAAGGAATTACTCCTTC  
 TACGTCTCGACAACCAGAACTTGCAGCAACTGTGGGACTGGGACCACCGCAACCTGACC  
 ATCAAAGCAGGGAAAAATGACTTTGCTTCAATCCCAAATATGTGTTTCCGAAATTTAC  
 CGCATGGAGGAAGTGACGGGGACTAAAGGGCGCCAAAGCAAAGGGGACATAAACACCAGG  
 AACACGGGGAGAGACCTCCTGTGAAAGTACGCTCCTGCATTTACCTCCACCACCACG  
 TCGAAGAATCGCATCATATAACCTGGCACCAGTACCGGGCCCTGACTACAGGGATCTC



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ATCAGCTTCACCGTTTACTACAAGGAAGCACCCCTTAAAGAATGTCACAGAGTATGATGGG  
 CAGGATGCCTGCGGCTCCAACAGCTGGAACATGGTGGACGTGGACCTCCCGCCAACAAAG  
 GACGTGGAGCCCAGCATCTTACTACATGGGCTGAAGCCCTGGACTCAGTACGCCGTTTAC  
 GTCAAGGCTGTGACCCTCACCATGGTGGAGAACGACCATATCCGTGGGGCCAAGAGTGAG  
 ATCTTGTACATTCGCACCAATGCTTCAGTTCCTTCCATTCCCTTGGACGTTCTTTACGCA  
 TCGAACTCCTCTTCTCAGTTAATCGTGAAGTGAACCCCTCCCTCTCTGCCAACGGCAAC  
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 AATTACTGCTCCAAGACAAAATCCCCATCAGGAAGTATGCCGACGGCACCATCGACATT  
 GAGGAGGTCACAGAGAACCCCAAGACTGAGGTGTGGTGGGGAGAAAGGCCTTGTCTGC  
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 TACACAGCCCGGATTACAGCCACATCTCTCTGCGAATGGGTCGTGGACAGATCCTGTG  
 TTCTTCTATGTCCAGGCCAAAACAGGATATGAAAATTCATCCATCTGATCATCGCTCTG  
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 GTGGTGAAGATGAACCTGAAACCAGAGTGGCCATTAACAGTGAACGAGGCCGCAAGC  
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 CTGATGACACGGGGCGATCTCAAAGTTATCTCCGGTCTCTGAGGCCAGAAATGGAGAAT  
 AATCCAGTCTAGCACCTCCAAGCCTGAGCAAGATGATTCAGATGGCCGGAGAGATTGCA  
 GACGGCATGGCATACTCAACGCCAATAAGTTCGTCCACAGAGACCTTGTGCCCGAAT  
 TGCATGGTAGCCGAAGATTTACAGTCAAATCGGAGATTTTGGTATGACGCGAGATATC  
 TATGAGACAGACTATTACCGGAAAGGAGGGAAAGGGCTGCTGCCCGTGGCTGGATGTCT  
 CCTGAGTCCCTCAAGGATGGAGTCTTACCACCTACTCGGACGTCTGGTCTTCCGGGTC  
 GTCCTCTGGGAGATCGCCACACTGGCCGAGCAGCCCTACCAGGGCTTGTCCAACGAGCAA  
 GTCCTTCGCTTCGTATGGAGGGCGGCCTTCTGGACAAGCCAGACAACCTGTCCTGACATG  
 CTGTTTGAAGTATGCGCATGTGCTGGCAGTATAACCCCAAGATGAGGCCTTCTTCTCTG  
 GAGATCATCAGCAGCATCAAAGAGGAGATGGAGCCTGGCTTCCGGGAGGTCTCTTCTAC  
 TACAGCGAGGAGAACAAGCTGCCCGAGCCGGAGGAGCTGGACCTGGAGCCAGAGAACATG  
 GAGAGCGTCCCCCTGGACCCCTCGGCCTCCTCGTCTCCCTGCCACTGCCCGACAGACAC  
 TCAGGACACAAGGCCGAGAACGGCCCGGCCCTGGGGTGTGGTCTCCGCGCCAGCTTC  
 GACGAGAGACAGCCTTACGCCACATGAACGGGGCCGCAAGAACGAGCGGGCCTTGCCG  
 CTGCCCCAGTCTTCGACCTGCTGA

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000875 unedited</p> <pre>AAACTTTGGGATTTGTATCCGACTCCTATAGGCGGCCGCGACATTCGCACCAGGGAAGAG CTCGCCCGCGGCGGCGGCGGCGCTGAGGGAGGAGGCGGCGGCGAGCGGAGCCAGGAGGAGG AGGAGGAGGGGGAGCCGCTCATTCAATTTGACTCCGCGTTTCTGCCCTCGCCGGCCTCG CCTGTGACCCGGACTTCGGGGCGATCTTGCGAACTGCGTCGCGCCCTCCCGCGGCGGAAG CTCGGGCGTCCGGCCGCTCCCGCGGCCAGGGCCGGGCTTGTTCCTCGCCTAGGC AGATTTGGGCTTTGCCCTTTCTTTGCACTTTTCCCCCTTCTGCCTCTCCGGGTTTG AAAATGGAGGCCGACGACGCCGACAGCCCGCCCGGCGCGCTCGGGTTCCCGACTCCGC CGAGCCCTGGGCGCTGCTGCCGCGCTGAGGGGCGCCCGCGCGCCCGCCCGCTCCG CGCACCCGAGGGGCCCGGCGGCGCCGCTTCGGAGTATTGTTTCCTTCGCCCTTGTTCCT TGGAGGGGAGCGAAGACTGAGTTTGAGACTTGTTCCTTTCAATTTCTTTTTTTCTTTT CTTTCTTTTTTTTTTTTTTTTTTTTTTTTGGAGAAAGGGGAATTCATCCCAAATAAAG GAATGAAGTCTGGCTCCGAGGAGGGTCCCGACCTCGCTGTGGGGCTCCTGTTTCTCT CCGCCGCTCTCGCTCTGGCCGACGAGTGGAGAAATCTGCGGGCCANGCATCGACATCC GCAACGACTATCAGCAGCTGAAGCGCTGGAGAACTGCACCGTATCGAGGGCTACTCC ACATCCTGCTCATCTCCAAGGCCGAGGACTACCGCAGCTACCGGTTCCCGAGCTACGGT</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000875
<b>Insert Size:</b>	5500 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_000875.2</a> , <a href="#">NP_000866.1</a>
<b>RefSeq Size:</b>	11242 bp

RefSeq ORF:	4104 bp
Locus ID:	3480
UniProt ID:	<a href="#">P08069</a>
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:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer 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.</p>