

Product datasheet for **RG214928**

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:	TurboGFP
Symbol:	IGF1 Receptor
Synonyms:	CD221; IGFI; IGF; JTK13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214928 representing NM_000875 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTCTGGCTCCGGAGGAGGGTCCCCGACCTCGCTGTGGGGCTCCTGTTTCTCTCCGCCGCGCTCT
CGCTCTGGCCGACGAGTGGAGAAATCTGCGGGCCAGGCATCGACATCCGCAACGACTATCAGCAGCTGAA
GCGCCTGGAGAACTGCACGGTATCGAGGGCTACCTCCACATCCTGCTCATCTCCAAGGCCGAGGACTAC
CGCAGCTACCGCTTCCCCAAGCTCACGGTATTACCGAGTACTTGTCTGCTGTTCCGAGTGGCTGGCCTCG
AGAGCCTCGGAGACCTTCCCCAACCTCACGGTATCCGCGGCTGGAAACTTCTACAACCTACGCCCT
GGTCATCTTCGAGATGACCAATCTCAAGGATATTGGGCTTTACAACCTGAGGAACATTACTCGGGGGGCC
ATCAGGATTGAGAAAAATGCTGACCTCTGTTACCTCTCCACTGTGGACTGGTCCCTGATCCTGGATGCGG
TGTCCAATAACTACATTGTGGGGAATAAGCCCCAAAGGAATGTGGGGACCTGTGTCCAGGGACCATGGA
GGAGAAGCCGATGTGTGAGAAGACCACCATCAACAATGAGTACAACCTACCGCTGTGGACCACAAACCGC
TGCCAGAAAAATGTGCCAAGCAGTGTGGGAAGCGGGCTGCACCGAGAACAATGAGTGTGCCACCCCG
AGTGCTGGGAGCTGCAGCGCCTGACAACGACACGGCCTGTGTAGCTTGCCGCCACTACTACTATGC
CGGTGTCTGTGTGCTGCTGCTGCCCGCCAAACACCTACAGGTTTGGGGCTGGCGCTGTGTGGACCGTGAC
TTCTGCGCAACATCCTCAGCGCCGAGAGCAGCAGTCCGAGGGGTTTGTGATCCACGACGGCGAGTGCA
TGCAGGAGTGCCCTCGGGCTTCAATCCGCAACGGCAGCCAGAGCATGACTGCATCCCTTGTGAAGGTCC
TTGCCGAAGGTCTGTGAGGAAGAAAAGAAAACAAGACCATTGATTCTGTTACTTCTGCTCAGATGCTC
CAAGGATGCACCATCTTCAAGGGCAATTTGCTCATTAAACATCCGACGGGGGAATAACATTGCTTCAGAGC
TGGAGAATTCATGGGGCTCATCGAGGTGGTACGGGCTACGTGAAGATCCGCCATTCTCATGCCTTGGT
CTCCTTGTCTTCTTAAAAACCTTCGCTCATCTAGGAGAGGAGCAGCTAGAAGGGAATTACTCTTTC
TACGTCCTCGACAACCAGAACTGCAGCAACTGTGGGACTGGGACCACCGCAACCTGACCATCAAAGCAG
GGAAAAATGACTTTGCTTCAATCCAAATTTATGTGTTTCCGAAATTTACCGCATGGAGGAAGTACGGG
GACTAAAGGGCGCAAAGCAAAGGGGACATAAACACCAGGAACAACGGGGAGAGAGCCTCCTGTGAAAGT



[View online »](#)

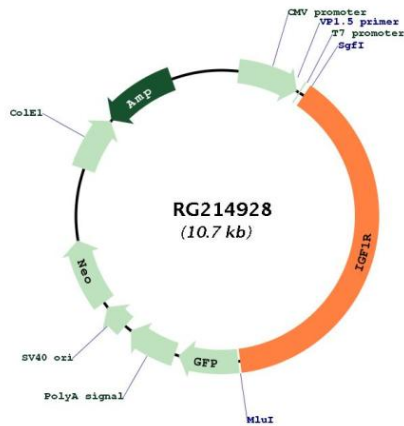
GACGTCCTGCATTTACCTCCACCACCAGTCTCGAAGAATCGCATCATATAACCTGGCACCGGTACCGGC
CCCCTGACTACAGGGATCTCATCAGCTTACCCTTTACTACAAGGAAGCACCCCTTAAGAATGTCACAGA
GTATGATGGGCAGGATGCCTGCGGCTCCAAACAGCTGGAACATGGTGGACGTGGACCTCCCGCCAACAAG
GACGTGGAGCCCAGCATTTACTACATGGGCTGAAGCCCTGGACTCAGTACGCCGTTTACGTCAAGGCTG
TGACCCCTACCATGGTGGAGAACGACCATATCCGTGGGGCCAAGAGTGAGATCTTGACATTGACACCAA
TGCTTCAGTTCCTCCATTCCCTTGGACGTTCTTTCAGCATCGAACTCCTCTTCTCAGTTAATCGTGAAG
TGGAAACCTCCCTCTCTGCCAACGGCAACCTGAGTTACTACATGTTGCGCTGGCAGCGGCAGCCTCAGG
ACGGCTACCTTTACCGGCACAATTACTGCTCCAAGACAAAATCCCATCAGGAAGTATGCCGACGGCAC
CATCGACATTGAGGAGGTCACAGAGAACCCTAAGACTGAGGTGTGTGGTGGGAGAAAGGCCTTGTCTGC
GCCTGCCCAAAACTGAAGCCGAGAAGCAGGCCGAGAAGGAGGAGGCTGAATACCGCAAAGTCTTTGAGA
ATTTCTGACAACTCCATCTTCGTGCCAGACCTGAAAGGAAGCGGAGAGATGTCATGCAAGTGGCCAA
CACCACCATGTCCAGCCGAAGCAGGAACACCACGGCCGACACCTACAACATCACCAGCCGGAAGAG
CTGGAGACAGAGTACCCTTTCTTGAGAGCAGAGTGGATAACAAGGAGAGAAGTGCATTTCTAACCTTC
GGCCTTTCACATTGTACCGCATCGATATCCACAGCTGCAACCACGAGGCTGAGAAGCTGGCTGCAGCGC
CTCCAACCTTCGTCTTGAAGGACTATGCCCGCAGAAGGAGCAGATGACATTCTGGGCCAGTGACCTGG
GAGCCAAGGCCTGAAAACCTCCATCTTTTTAAAGTGGCCGGAACCTGAGAAATCCCAATGGATTGATCTAA
TGATGAAATAAAATACGGATCACAAGTTGAGGATCAGCGAGAATGTGTGTCCAGACAGGAATACAGGAA
GTATGGAGGGCCAAGCTAAACCGGCTAAACCCGGGGAACACACAGCCCGGATTGAGGCCACATCTCTC
TCTGGGAATGGTTCGTGGACAGATCCTGTGTTCTTCTATGTCCAGGCCAAAACAGGATATGAAAACCTCA
TCCATCTGATCATCGCTCTGCCGTCGCTGTCTGTTGATCGTGGGAGGGTGGTGGATTATGCTGTACGT
CTTCCATAGAAAGAGAAAATAACAGCAGGCTGGGGAATGGAGTGTGTATGCCTCTGTGAACCCGGAGTAC
TTCAGCGCTGCTGATGTGTACGTTCTGATGAGTGGGAGGTGGCTCGGGAGAAGATCACCATGAGCCGGG
AACTTGGCAGGGGTCGTTTGGGATGGTCTATGAAGGAGTTGCCAAGGGTGGTGGTGAAGATGAACCTGA
AACCCAGAGTGGCCATTAACACAGTGAACGAGGCCGCAAGCATGCGTGAAAGGATTGAGTTTCTCAACGAA
GCTTCTGTGATGAAGGATTCAATTGTACCATGTGGTGCATTGCTGGGTGGTGTCCCAAGGCCAGC
CAACACTGGTCATCATGGAAGTATGACACGGGCGATCTCAAAAGTTATCTCCGGTCTCTGAGGCCAGA
AATGGAGAATAATCCAGTCTTAGCACCTCAAGCCTGAGCAAGATGATTCAGATGGCCGGAGAGATTGCA
GACGGCATGGCATACTCAACGCCAATAAGTTCGTCCACAGAGACCTTGTGCCCGAATTGCATGGTAG
CCGAAGATTTACAGTCAAAATCGGAGATTTTGGTATGACGCGAGATATCTATGAGACAGACTATTACCG
GAAAGGAGGAAAGGGCTGCTGCCCGTGCCTGGATGTCTCTGAGTCCCTCAAGGATGGAGTCTTACC
ACTTACTCGGACGTCTGGTCTTCCGGGTCGCTCTCTGGGAGATCGCCACTGGCCGAGCAGCCCTACC
AGGGCTTGTCCAACGAGCAAGTCTTCCGTTTCGTATGGAGGGCGCCTTCTGGACAAGCCAGACAAGT
TCTTGACATGCTGTTGAACTGATGCGCATGTGCTGGCAGTATAACCCCAAGATGAGGCCTTCTTCTCTG
GAGATCATCAGCAGCATCAAAGAGGAGATGGAGCCTGGCTTCCGGGAGGTCTCCTTCTACTACAGCGAGG
AGAACAAGCTGCCCGAGCCGGAGGAGCTGGACCTGGAGCCAGAGAACATGGAGAGCGTCCCCCTGGACCC
CTCGGCCCTCTCGTCTCCCTGCCACTGCCCGACAGACTCAGGACACAAGGCCGAGAACGGCCCGGC
CCTGGGGTGTGGTCTCCGCGCCAGCTTCGACGAGAGACAGCCTTACGCCACATGAACGGGGGCCGCA
AGAACGAGCGGGCCTTCCCGTGCCTTCCGACCTTTCGACCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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:	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_000875.2 , NP_000866.1
RefSeq Size:	4989 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

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]

Product images:


Circular map for RG214928