

Product datasheet for **RC600011**

Insulin Receptor R (INSRR) (NM_014215) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Insulin Receptor R (INSRR) (NM_014215) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	Insulin Receptor R
Synonyms:	IRR
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RC600011 representing leader sequence plus the extracellular domain region of NM_014215 Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGCGAATTCGTCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
CGATCGCC

ATGGCAGTGCCTAGTCTGTGGCCCTGGGGAGCATGCCTGCCTGTGATCTTCCTCTCCTTGGGATTTGGCC
TGGATACAGCAGCTGGGCCCTCCGGCTGGGGGGCAACAGCTCGGATTCGAGATCCAGGAGGACAAGGT
GCCCGTGAGCGAGCGGTGCTGAGCGGCCCTGCGCCACTTCACGGAATACCGGATCGACATCCATGCCTGC
AACCACCGGGCGCACACCGTGGGCTGCAGCGCCGCCACCTTCGTCTTTGCGCGCACCATGCCCCACAGAG
AGGCTGATGGTATCCAGGAAAGGTGGCCTGGGAGGCCTCCAGCAAGAACAGTGTCTTCTGCGCTGGCT
CGAGCCACCAGACCCCAACGGACTCATCCTCAAGTACGAAATCAAGTACCGCCGCTTGGGAGAGGAGGCC
ACAGTGTGTGTGTGCCGTCTTCGATATGCGAAGTTTGGGGGAGTCCACCTGGCCCTGCTGCCCCCTG
GAAACTACTCTGCCAGGGTTAGGGCAACCTCACTGGCTGGCAATGGCTCTTGGACAGACAGTGTTCCTT
CTACATCCTTGGCCCAGAGGAGGAGGATGCTGGGGGGCTGCAT

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC
TGGTACCGATATCAAGCTTGTGACTCTAGA



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Protein Sequence: >RC600011 representing signal peptide plus the extracellular domain region of NM_014215
 Red=Cloning sites Green= DDK and 6XHIS Tags

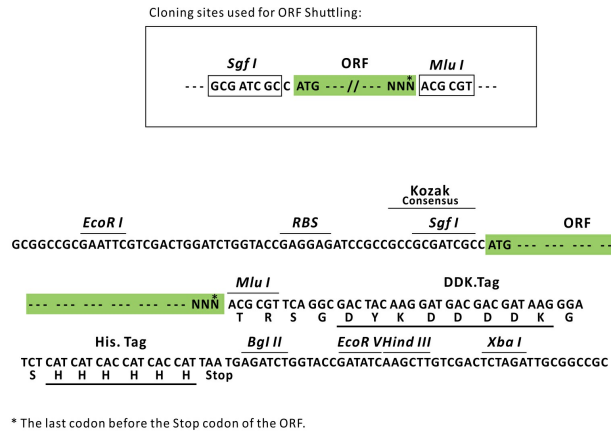
MAVPSLWPWGACLPVIFLSLGFGLDTAAGPLRLGGNSSDFEIQEDKVPRERAVLSGLRHFTEYRIDIHAC
 NHAHTVGCSAATFVFARTMPHREADGIPGKVAWEASSKNSVLLRWLEPPDPNGLILKYEIKYRRLGEEA
 TVLCVSRLRYAKFGGVHLALLPPGNYSARVRATSLAGNGSWTDSVAFYILGPEEEDAGGLH

TRSGTRSGDYKDDDDKGSHHHHHH

Chromatograms: https://cdn.origene.com/chromatograms/mk8117_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014215

ORF Size: 603 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_014215.2 , NP_055030.1
RefSeq Size:	4193 bp
RefSeq ORF:	3894 bp
Locus ID:	3645
UniProt ID:	P14616
Cytogenetics:	1q23.1
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Prostate cancer, Regulation of actin cytoskeleton
MW:	21.9 kDa
Gene Summary:	Receptor with tyrosine-protein kinase activity. Functions as a pH sensing receptor which is activated by increased extracellular pH. Activates an intracellular signaling pathway that involves IRS1 and AKT1/PKB.[UniProtKB/Swiss-Prot Function]