OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC224956

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:	Myc-DDK
Symbol:	Insulin Receptor R
Synonyms:	IRR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC224956 representing NM_014215
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGTGCCTAGTCTGTGGCCCTGGGGAGCATGCCTGCCTGTGATCTTCCTCTCCTTGGGATTTGGCC
TGGATACAGTAGAGGTGTGCCCCAGCCTGGATATTCGCTCAGAGGTGGCAGAGCTTCGTCAGCTGGAGAA
CTGCAGCGTGGTGGAGGGCCACCTGCAGATCCTGCTCATGTTCACAGCCACCGGGGAGGACTTCCGCGGC
CTCAGCTTCCCTCGCCTCACCCAGGTCACCGACTACCTGCTGCTCTTCCGTGTCTACGGACTGGAGAGCC
TGCGCGACCTCTTCCCCAACCTAGCAGTCATCCGCGGGACGCGCCTCTTCCTGGGCTATGCACTGGTCAT
CTTTGAGATGCCACATCTGCGTGACGTGGCACTGCCTGCACTTGGGGCCGTGCTGCGTGGGGCTGTGCGT
GTGGAGAAGAACCAGGAGCTCTGCCACCTCTCCACCATTGACTGGGGACTGCTGCAGCCAGCACCTGGCG
CCAACCACATCGTGGGCAACAAGCTGGGCGAGGAGTGTGCTGACGTGTGCCCTGGTGTGCTGGGTGCTGC
TGGTGAGCCCTGTGCCAAGACCACCTTCAGCGGGCACACTGACTACAGATGCTGGACCTCCAGCCACTGC
CAGAGAGTGTGCCCCTGCCCCCATGGGATGGCTTGCACAGCGAGGGGCGAGTGCTGCCACACCGAATGCC
TGGGGGGCTGCAGCCAGCCAGAAGACCCTCGTGCCTGTGTAGCTTGCCGCCACCTCTACTTCCAGGGTGC
CTGCCTGTGGGCCTGCCCGCCAGGCACCTACCAGTATGAGTCCTGGCGCTGTGTCACAGCTGAGCGCTGT
GCCAGCCTGCACTCTGTGCCCGGCCGTGCCTCCACCTTCGGCATACACCAGGGCAGTTGCCTGGCCCAGT
GCCCTTCTGGCTTCACCCGTAATAGCAGCAGCATATTCTGCCACAAGTGCGAGGGGCTGTGCCCTAAAGA
GTGCAAGGTAGGCACCAAGACCATCGACTCCATCCAGGCGGCACAGGATCTTGTGGGCTGCACGCATGTG
GAGGGAAGCCTCATCCTCAACCTTCGCCAGGGCTACAACCTGGAGCCACAGCTGCAGCACAGCCTGGGGC
TGGTAGAAACCATTACTGGCTTCCTCAAAATCAAGCACTCCTTTGCCCTCGTGTCCCTGGGCTTTTTCAA
GAACCTCAAACTAATCCGGGGAGACGCCATGGTGGATGGGAACTACACTCTCTACGTGCTGGACAACCAG
AACCTACAACAGCTAGGGTCCTGGGTGGCCGCGGGGCTCACCATTCCCGTGGGCAAGATCTACTTCGCCT
TCAACCCGCGCCTCTGCTTGGAACACATCTACCGACTGGAGGAGGTGACAGGCACGCGAGGTCGGCAGAA
CAAGGCTGAGATCAACCCCCGCACCAACGGAGACCGCGCCGCCTGCCAGACTCGCACCCTGCGCTTCGTG
```

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

TCCAACGTGACGGAGGCAGACCGCATCCTGCTACGCTGGGAGCGCTATGAGCCACTGGAGGCCCGCGACC
TGCTCAGCTTCATCGTGTACTACAAGGAGTCCCCATTCCAGAACGCCACAGAGCACGTGGGTCCAGATGC
TTGTGGAACCCAGAGCTGGAACCTGCTGGATGTGGAGCTGCCCCTAAGCCGCACCCAGGAGCCAGGGGTG
ACCCTAGCCTCCCTCAAGCCTTGGACACAGTACGCAGTGTTTGTGCGGGCCATCACGCTAACCACTGAGG
AGGACAGCCCTCATCAAGGAGCCCAGAGTCCCATCGTCTACCTCCGAACGCTGCCTGCAGCTCCCACGGT
GCCCCAAGACGTCATCTCCACGTCCAACTCCTCCTCCCACCTCCTGGTGCGCTGGAAGCCACCGACCCAG
CGCAATGGGAACCTCACCTACTACCTGGTGCTGTGGCAGCGGCTGGCAGAGGACGGCGACCTCTACCTCA
ATGACTACTGCCACCGCGGCTTGCGGCTGCCCACCAGCAACAACGATCCGCGCTTCGACGGCGAAGACGG
GGATCCTGAGGCCGAGATGGAGTCCGACTGCTGCCCTTGCCAGCACCCACCTCCTGGTCAGGTTCTGCCC
CCGCTGGAGGCGCAAGAGGCCTCGTTCCAGAAGAAGTTTGAAAACTTTCTACACAACGCGATCACCATCC
CCATATCCCCTTGGAAGGTGACGTCCATCAACAAGAGCCCCCAAAGGGACTCAGGGCGGCACCGCCGGGC
AGCTGGGCCCCTCCGGCTGGGGGGCAACAGCTCGGATTTCGAGATCCAGGAGGACAAGGTGCCCCGTGAG
CGAGCGGTGCTGAGCGGCCTGCGCCACTTCACGGAATACCGGATCGACATCCATGCCTGCAACCACGCGG
CGCACACCGTGGGCTGCAGCGCCGCCACCTTCGTCTTTGCGCGCACCATGCCCCACAGAGAGGCTGATGG
TATTCCAGGAAAGGTGGCCTGGGAGGCCTCCAGCAAGAACAGTGTCCTTCTGCGCTGGCTCGAGCCACCA
GACCCCAACGGACTCATCCTCAAGTACGAAATCAAGTACCGCCGCTTGGGAGAGGAGGCCACAGTGCTGT
GTGTGTCCCGTCTTCGATATGCGAAGTTTGGGGGAGTCCACCTGGCCCTGCTGCCCCCTGGAAACTACTC
TGCCAGGGTTAGGGCAACCTCACTGGCTGGCAATGGCTCTTGGACAGACAGTGTTGCCTTCTACATCCTT
GGCCCAGAGGAGGAGGATGCTGGGGGGCTGCATGTCCTCCTCACTGCCACCCCTGTGGGGCTCACGCTGC
TCATCGTTCTTGCTGCCCTTGGTTTCTTCTACGGCAAGAAGAGAAACAGAACCCTGTATGCTTCTGTGAA
TCCAGAGTACTTCAGCGCCTCTGATATGTATGTCCCTGATGAATGGGAGGTGCCTCGGGAGCAGATCTCG
ATAATCCGGGAACTGGGCCAGGGCTCTTTTGGGATGGTATATGAGGGGCTGGCACGAGGACTTGAGGCTG
GAGAGGAGTCCACACCCGTGGCCCTGAAGACGGTGAATGAGCTGGCCAGCCCACGGGAATGCATTGAGTT
CCTCAAGGAAGCTTCTGTCATGAAAGCCTTCAAGTGTCACCATGTGGTGCGTCTCCTGGGTGTGGTATCT
CAGGGCCAGCCAACTCTGGTCATCATGGAGTTAATGACCCGTGGGGACCTCAAGAGCCATCTTCGATCTT
TGCGGCCTGAGGCAGAGAACAACCCTGGGCTCCCACAGCCAGCATTGGGGGAAATGATCCAAATGGCTGG
TGAGATTGCAGACGGCATGGCCTACCTTGCTGCCAACAAGTTTGTGCACCGAGATCTAGCAGCCCGCAAC
TGCATGGTGTCCCAGGACTTCACCGTCAAGATCGGGGACTTCGGGATGACTCGGGACGTGTATGAGACAG
ACTATTACCGCAAGGGTGGGAAGGGGCTGCTGCCCGTGCGCTGGATGGCCCCCGAGTCCCTCAAAGATGG
GATCTTCACCACCCACTCGGATGTCTGGTCCTTTGGCGTGGTACTCTGGGAGATTGTGACCCTGGCAGAA
CAACCCTACCAGGGCCTGTCCAATGAGCAGGTGCTGAAGTTCGTCATGGATGGCGGGGTCCTGGAGGAGC
TGGAGGGCTGTCCCCTTCAGCTGCAGGAGCTGATGAGCCGCTGCTGGCAGCCGAACCCACGCCTGCGCCC
ATCTTTCACACACATTCTGGACAGCATACAGGAGGAGCTGCGGCCCTCCTTCCGCCTCCTCTCCTTCTAC
TACAGCCCGGAATGCCGGGGGGCCCGGGGCTCCCTGCCTACCACCGATGCAGAGCCTGACTCCTCACCCA
CTCCAAGAGACTGCAGCCCTCAAAATGGGGGTCCAGGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

>RC224956 representing NM_014215
Red=Cloning site Green=Tags(s)

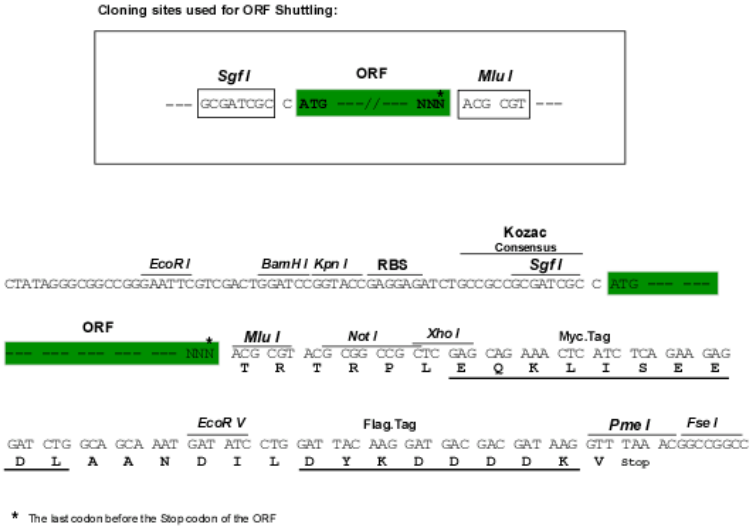
MAVPSLWPWGACLPVIFLSLGFGLDTVEVCPSLDIRSEVAELRQLENCSVVEGHLQILLMFTATGEDFRG
LSFPRLTQVTDYLLLFRVYGLESLRDLFPNLAVIRGTRLFLGYALVIFEMPHLRDVALPALGAVLRGAVR
VEKNQELCHLSTIDWGLLQPAPGANHIVGNKLGEECADVCPGVLGAAGEPCAKTTFSGHTDYRCWTSSHC
QRVCPCPHGMACTARGECCHTECLGGCSQPEDPRACVACRHLYFQGACLWACPPGTYQYESWRCVTAERC
ASLHSVPGRASTFGIHQGSCLAQCPSGFTRNSSSIFCHKCEGLCPKECKVGTKTIDSIQAAQDLVGCTHV
EGSLILNLRQGYNLEPQLQHSLGLVETITGFLKIKHSFALVSLGFFKNLKLIRGDAMVDGNYTLYVLDNQ
NLQQLGSWVAAGLTIPVGKIYFAFNPRLCLEHIYRLEEVTGTRGRQNKAEINPRTNGDRAACQTRTLRFV
SNVTEADRILLRWERYEPLEARDLLSFIVYYKESPFQNATEHVGPDACGTQSWNLLDVELPLSRTQEPGV
TLASLKPWTQYAVFVRAITLTTEEDSPHQGAQSPIVYLRTLPAAPTVPQDVISTSNSSSHLLVRWKPPTQ
RNGNLTYYLVLWQRLAEDGDLYLNDYCHRGLRLPTSNNDPRFDGEDGDPEAEMESDCCPCQHPPPGQVLP
PLEAQEASFQKKFENFLHNAITIPISPWKVTSINKSPQRDSGRHRRAAGPLRLGGNSSDFEIQEDKVPRE
RAVLSGLRHFTEYRIDIHACNHAAHTVGCSAATFVFARTMPHREADGIPGKVAWEASSKNSVLLRWLEPP
DPNGLILKYEIKYRRLGEEATVLCVSRLRYAKFGGVHLALLPPGNYSARVRATSLAGNGSWTDSVAFYIL
GPEEEDAGGLHVLLTATPVGLTLLIVLAALGFFYGKKRNRTLYASVNPEYFSASDMYVPDEWEVPREQIS
IIRELGQGSFGMVYEGLARGLEAGEESTPVALKTVNELASPRECIEFLKEASVMKAFKCHHVVRLLGVVS
QGQPTLVIMELMTRGDLKSHLRSLRPEAENNPGLPQPALGEMIQMAGEIADGMAYLAANKFVHRDLAARN
CMVSQDFTVKIGDFGMTRDVYETDYYRKGGKGLLPVRWMAPESLKDGIFTTHSDVWSFGVVLWEIVTLAE
QPYQGLSNEQVLKFVMDGGVLEELEGCPLQLQELMSRCWQPNPRLRPSFTHILDSIQEELRPSFRLLSFY
YSPECRGARGSLPTTDAEPDSSPTPRDCSPQNGGPGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8008_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014215

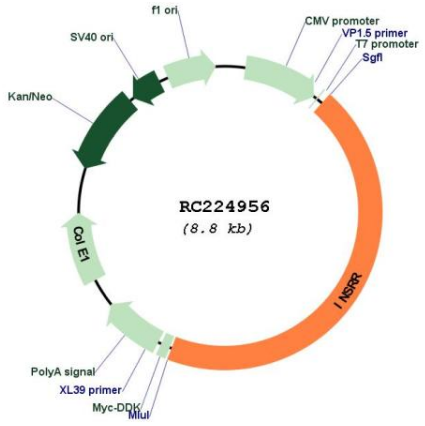
ORF Size: 3891 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

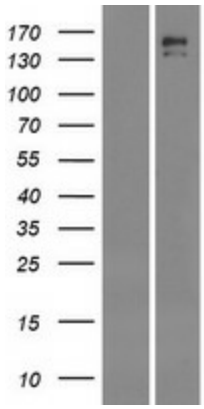
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014215.3
RefSeq Size:	4148 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:	143.72 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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Product images:

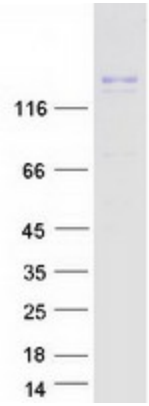


Circular map for RC224956



Western blot validation of overexpression lysate (Cat# [LY415430]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224956 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Coomassie blue staining of purified INSRR protein (Cat# [TP324956]). The protein was produced from HEK293T cells transfected with INSRR cDNA clone (Cat# RC224956) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US