

Product datasheet for **SC323604**

Insulin Receptor R (INSRR) (NM_014215) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Insulin Receptor R (INSRR) (NM_014215) Human Untagged Clone
Tag:	Tag Free
Symbol:	Insulin Receptor R
Synonyms:	IRR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014215, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGTGCCTAGTCTGTGGCCCTGGGGAGCATGCCTGCCTGTGATCTTCTCTCCTTGGGATTTGGCC
TGGATACAGTAGAGGTGTGCCCCAGCCTGGATATTGCTCAGAGGTGGCAGAGCTTCGTCAGCTGGAGAA
CTGCAGCGTGGTGGAGGGCCACCTGCAGATCCTGCTCATGTTACAGCCACCGGGGAGGACTTCCGCGGC
CTCAGTTCCTCGCTCACCCAGGTACCCGACTACCTGCTGCTTCCGTGTCTACGGACTGGAGAGCC
TGGCGGACCTCTCCCAACCTAGCAGTCATCCGCGGGACGCGCCTTCTCTGGGCTATGCACTGGTCAT
CTTTGAGATGCCACATCTGCGTGACGTGGCACTGCCTGCCTTGGGGCCGTGCTGCGTGGGGCTGTGCGT
GTGGAGAAGAACCAGGAGCTCTGCCACCTCTCCACCATTGACTGGGGACTGCTGCAGCCAGCACCTGGCG
CCAACCACATCGTGGGAACAAGCTGGGCGAGGAGTGTGCTGACGTGTGCCCTGGTGTGCTGGGTGCTGC
TGGTGAGCCCTGTGCAAGACCCTTCAGCGGGCACACTGACTACAGATGCTGGACCTCCAGCCACTGC
CAGAGAGTGTGCCCTGCCCCATGGGATGGCTTGACAGCGAGGGGGCAGTGTGCCACACCGAATGCC
TGGGGGGCTGCAGCCAGCCAGAAGACCCTCGTGCTGTGTAGCTTGCCGCCACCTCTACTTCCAGGGTGC
CTGCTGTGGGCTGCCCGCCAGGCACCTACCAGTATGAGTCTGGCGCTGTGTACAGCTGAGCGCTGT
GCCAGCTGCACTCTGTGCCCGCGCTGCCCTCCACCTTCGGCATAACCCAGGGCAGTTGCCTGGCCAGT
GCCCTTCTGGCTTCAACCGTAATAGCAGCAGCATATTCTGCCACAAGTGGCAGGGGCTGTGCCCTAAAGA
GTGCAAGGTAGGCACCAAGACCATCGACTCCATCCAGGCGGCACAGGATCTTGTGGGCTGCACGCATGTG
GAGGGAAGCCTCATCCTCAACCTTCGCCAGGGCTACAACCTGGAGCCACAGCTGCAGCACAGCCTGGGGC
TGGTAGAAACCATTACTGGCTTCTCAAAATCAAGCACTCCTTTGCCCTCGTGTCCCTGGGCTTTTTCAA
GAACCTCAAATAATCCGGGGAGACGCCATGGTGGATGGGAACTACACTCTCTACGTGCTGGACAACCGAG
AACCTACAACAGCTAGGGTCTGGGTGGCCGCGGGGCTCACCATTCCTGGGCAAGATCTACTTCCGCT
TCAACCCGCGCTCTGCTTGAACACATCTACCGACTGGAGGAGGTGACAGGCACGCGAGGTGCGCAGAA
CAAGGCTGAGATCAACCCCGCACCAACGGAGACCGCGCCGCTGCCAGACTCGCACCTGCGCTTCGTG
TCCAACGTGACGGAGGCAGACCCATCCTGCTACGCTGGGAGCGCTATGAGCCACTGGAGCCCGCGACC
TGCTCAGTTCATCGTGTACTACAAGGAGTCCCATTCCAGAACGCCACAGAGCAGTGGGTCCAGATGC

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TTGTGGAACCCAGAGCTGGAACCTGCTGGATGTGGAGCTGCCCTAAGCCGCACCCAGGAGCCAGGGTG
ACCCTAGCCTCCCTCAAGCCTTGGACACAGTACGCAGTGTGGTGTGCGGGCCATCACGCTAACCACTGAGG
AGGACAGCCCTCATCAAGGAGCCAGAGTCCCATCGTCTACCTCCGAACGCTGCCTGCAGCTCCCACGGT
GCCCAAGACGTCATCTCCACGTCCAACCTCCTCCTCCACCTCCTGGTGCCTGGAAGCCACCGACCCAG
CGCAATGGGAACCTCACCTACTACCTGGTGTGTGGCAGCGGTGGCAGAGGACGGCGACCTTACTCTCA
ATGACTACTGCCACCGCGGCTTGGCGCTGCCACCAGCAACAACGATCCGCGCTTCGACGGCGAAGACGG
GGATCCTGAGGCCGAGATGGAGTCCGACTGCTGCCCTTCCAGCAGCCACCTCCTGGTCAAGTTCTGCC
CCGCTGGAGGCGCAAGAGGCTCGTTCCAGAAGAAGTTTGAAAACCTTCTACACAACGCGATCACCATCC
CCATATCCCTTGGAAAGGTGACGTCCATCAACAAGAGCCCAAGGGACTCAGGGCGGCACCGCGGGC
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CGAGCGGTGCTGAGCGGCTGCGCCACTTACGGAATACCGGATCGACATCCATGCCTGCAACCACGCGG
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TATTCAGGAAAGGTGGCTGGGAGGCTCCAGCAAGAAGTGTCTTCTGCGTGGCTCGAGCCACCA
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GGCCAGAGGAGGAGGATGCTGGGGGGTGCATGTCTCCTCACTGCCACCCCTGTGGGGCTCACGCTGC
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TCCAGAGTACTTCAGCGCCTCGATATGTATGTCCCTGATGAATGGGAGGTGCCTCGGGAGCAGATCTCG
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GAGAGGAGTCCACACCCGTGGCCCTGAAGACGGTGAATGAGTGGCCAGCCACGGGAATGCATTGAGTT
CCTCAAGGAAGCTTCTGTATGAAAGCCTTCAAGTGTACCATGTGGTGGCTCCTCGGTGGTGTGATCT
CAGGGCCAGCAACTCTGGTCATCATGGAGTTAATGACCCGTGGGACCTCAAGAGCCATCTTCGATCTT
TGCGGCCCTGAGGAGAGAGAACAACCTGGGCTCCCACAGCAGCATTGGGGGAAATGATCCAATGGCTGG
TGAGATTGCAGACGGCATGGCCTACCTTGTGCCAACAAGTTTGTGCACCGAGATCTAGCAGCCGCAAC
TGCATGGTGTCCAGGACTTACCGTCAAGATCGGGGACTTCGGGATGACTCGGGACGTGTATGAGACAG
ACTATTACCGCAAGGGTGGGAAGGGGCTGCTGCCCGTGCCTGGATGGCCCCGAGTCCCTCAAAGATGG
GATCTTACCACCCACTCGGATGTCTGGTCTTTGGCGTGGTACTCTGGGAGATTGTGACCTGGCAGAA
CAACCCTACCAGGCTGTCCAATGAGCAGGTGCTGAAGTTCTGATGGATGGCGGGTCTGGAGGAGC
TGGAGGGCTGTCCCTTACGCTGCAGGAGCTGATGAGCCGCTGCTGGCAGCCGAACCCACGCTGCGCC
ATCTTTCACACACATTCTGGACAGCATAACAGGAGGAGCTGCGGCCCTCCTCCGCTCCTCTCCTTAC
TACAGCCCGAATGCCGGGGGGCCGGGGCTCCCTGCCTACCACCGATGCAGAGCCTGACTCCTACCCA
CTCAAGAGACTGCAGCCCTCAAATGGGGTCCAGGGCACTGA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for mutant NM_014215 unedited
CTCCCCGCTCGTTGCAGCAGATGGGCGGTAGGCGTGTACGGAAGGGAGGTCTATATAAGCAGAGCTCGTT
TAGTGAACCGTCATTAATTTTGAATACGACTCACTATAGGGCGCCGCGAATTCAGTGGCCGCTCCTTCT
ACAACGTCTTTACTGGGAAAACCTGGCGTGAATTCGGCACGAGGTCATCTTTGAGATGCCACATCTGCG
TGACGTGGCACTGCCTGCACTTGGGGCCGTGCTGCGTGGGCTGTGCGTGTGGAGAAGAACCAGAGCCCTG
CCACCTCTCACCATTGACCGGGGACTCCTGCAACACCACCTGGCGCCACCAATCTGGGCACAATCTGGTT
TAAGATTGCTGACTTCTGCTGTGTGCTGGTGTGAGGTGCCCGTGCCAAACCACCTAACGGCCCTT
TCTTCTGATCTTCCCCTCAACCCTGCAAAAAAGGCCCCCTCCCAAGGAAAGCCTTGGCCACAAGTGCC
ATGCCCCACCCAAAGGCCCGGGGGCTCAGAACCAGAAAACTTGGCCGTTTTACCTTGGCCCCCAAC
TTCCGGGGGCGCCGGGGCCCTCCCAAACTTTCCATTAACCCCTGCAATAGCCAATAAACTTGGGAAAA
TGAAATGGGCTGGCAGCCTCATAAATG
    
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Kinase Domain Sequence:	>SC323604 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation GGMGATCTCGWATCCGGGACTGGGCCAGGGCTCTTTGGGATGGTATATGAGGGGCTGGCAGGAGGACTT GAGGCTGGAGAGGAGTCCACACCCGTGGCCCTGATGACGGTGAATGAGCTGGCCAGCCCACGGGAATGCA TTGAGTTCCTCAAGGAAGCTTCTGTTCATGAAAGCCTTCAAGTGTACCATGTGGTGCCTCTCTGGGTGT GGTATCTCAGGGCCAGCCAACCTGTGTCATCATGGAGTTAATGAC
Restriction Sites:	Please inquire
ACCN:	NM_014215
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.
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_014215.1 , 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
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]