

Product datasheet for **RG215257**

Insulin Receptor (INSR) (NM_001079817) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Insulin Receptor (INSR) (NM_001079817) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Insulin Receptor
Synonyms:	CD220; HHF5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215257 representing NM_001079817 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACCGGGGCGGGGGCGGGGGCGGGCCGCGCCGCTGCTGGTGGCGGTGGCCGCGCTGCTACTGG
GCGCCGCGGGCCACCTGTACCCCGGAGAGGTGTGTCCCGCATGGATATCCGGAACAACCTCACTAGGTT
GCATGAGCTGGAGAATTGCTCTGTCATCGAAGGACACTGCAGATACTCTTGATGTTCAAACGAGGCC
GAAGATTTCCGAGACCTCAGTTTCCCAAACCTCATCATGACTGATTACTTGTGCTCTTCCGGTCT
ATGGGCTCGAGAGCCTGAAGACCTGTTCCCAAACCTCACGGTATCCGGGGATCACGACTGTTCTTTAA
CTACGCGCTGGTATCTTCGAGATGGTTCACTCAAGGAACCTCGGCTCTACAACCTGATGAACATCACC
CGGGTCTGTCCGCATCGAGAAGAACAATGAGCTCTGTTACTTGGCCACTATCGACTGGTCCCCTATCC
TGGATCCGTGGAGGATAATTACATCGTGTGAACAAAGATGACAACGAGGAGTGTGGAGACATCTGTCC
GGTACC CGAAGGGCAAGACCAACTGCCCCGCCACCGTCATCAACGGGCAGTTTGTGCAACGATGTTGG
ACTCATAGTCACTGCCAGAAAGTTTGGCCGACCTCTGTAAGTCAACGGCTGCACCGCCGAAGGCCCTCT
GTTGCCACAGCGAGTGCCTGGGCAACTGTTCTCAGCCGACGACCCCAAGTGCCTGGCTGCCGCAA
CTTCTACCTGGACGCGAGTGTGTGGAGACCTGCCCAAAATGCAAGAACTCGCGGAGGAGGGCTGCCACCA
GTGAATTCAGCTTCTGCCAGGACCTGCACCACAAATGCAAGAACTCGCGGAGGAGGGCTGCCACCA
AGGTCATTCAACAACAAGTGATCCCTGAGTGTCCCTCGGGTACACGATGAATTCAGCAACTTGCT
GTGCACCCATGCCTGGTCCCTGTCCCAAGGTGTGCCACCTCCTAGAAGGCGAGAAGACCATCGACTCG
GTGACGCTGCCAGGAGCTCCGAGGATGCACCGTCATCAACGGGAGTCTGATCATCAACATTCGAGGAG
GCAACAATCTGGCAGCTGAGCTAGAAGCAACCTCGGCTCATTGAAGAAATTCAGGGTATCTAAAAAT
CCGCCGATCTACGCTCTGGTGTCACTTCTTCTTCCGGAAGTACGCTGATTCGAGGAGAGACCTTG
GAAATTGGGAACACTCCTTCTATGCCTGGACAACCAGAACCTAAGGCAGCTCTGGGACTGGAGCAAC
ACAACCTCACCATCACTCAGGGGAAACTCTTCTCCACTATAACCCAAACTCTGCTTGTGAGAAATCCA
CAAGATGGAAGAAGTTTCAGGAACCAAGGGGCGCCAGGAGAGAAACGACATTGCCCTGAAGACCAATGGG



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GACCAGGCATCCTGTGAAAATGAGTTACTTAAATTTTCTTACATTCGGACATCTTTTGACAAGATCTTGC
TGAGATGGGAGCCGACTGGCCCCGACTTCCGAGACCTTTGGGGTTCATGCTGTTCTACAAAGAGGC
CCCTTATCAGAAATGTGACGGAGTTCGACGGCAGGATGCGTGTGGTTCCAACAGTTGGACGGTGGTAGAC
ATTGACCCACCCCTGAGGTCCAACGACCCCAATCACAGAACCACCCAGGGTGGCTGATGCGGGGTCTCA
AGCCCTGGACCCAGTATGCCATCTTTGTGAAGACCCTGGTACCTTTTCGGATGAACGCCGACCTATGG
GGCCAAGAGTGACATCATTTATGTCCAGACAGATGCCACCAACCCTCTGTGCCCTGGATCCAATCTCA
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ACTACCTGGTTTTCTGGGAGAGGCAGGCGAAGACAGTGAGCTGTTTCGAGCTGGATTATTGCCTCAAAGG
GCTGAAGCTGCCCTCGAGGACCTGGTCTCCACCATTTCGAGTCTGAAGATTCTCAGAAGCACAACCAGAGT
GAGTATGAGGATTCGGCCGGCGAATGCTGCTCCTGTCCAAGACAGACTCTCAGATCCTGAAGGAGCTGG
AGGAGTCTCGTTTAGGAAGACGTTTGGAGTACCTGCACAACGTGGTTTTCTGCCAGGCCATCTCG
GAAACGCAGGTCCCTTGGCGATGTTGGGAATGTGACGGTGGCCGTGCCACGGTGGCAGCTTTCCCAAC
ACTTCTCGACCAGCGTCCCACGAGTCCGGAGGAGCACAGGCCTTTTGAGAAGTGGTGAACAAGGAGT
CGCTGGTCTCTCCGGTTGCGACACTTACGGGCTATCGCATCGAGCTGCAGGCTTGAACCAGGACAC
CCCTGAGGAACGGTGCAGTGTGGCAGCCTACGTACGTGCGAGGACCATGCCTGAAGCCAAGGCTGATGAC
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AGCCCAATGGTCTGATCGTGTGTATGAAGTGAAGTATCGGCGATATGGTGTGAGGAGCTGCATCTCTG
CGTCTCCCGCAAGCACTTCGCTCTGGAACGGGGCTGCAGGCTGCGTGGGCTGTACCCGGGAACTACAGC
GTGCGAATCCGGGCCACCTCCCTTGGCGCAACGGCTCTTGGACGGAAACCACCTATTTCTACGTGACAG
ACTATTTAGAGTCCCGTCAAATATTGCAAAAATTATCATCGGCCCTCATCTTTGCTTTCTCTTCAG
TGTTGTGATTGGAAGATTTATCTATTCTGAGAAAGAGGCAGCCAGATGGGCCGCTGGGACCGCTTTAC
GCTTCTCAAACCCTGAGTATCTCAGTGCCAGTGTGTGTTCCATGCTCTGTGTACGTGCCGGACGAGT
GGGAGGTGTCTCGAGAGAAGATCACCTCCTTCGAGAGCTGGGGCAGGGCTCCTTCGGCATGGTGTATGA
GGGCAATGCCAGGGACATCATCAAGGGTGAGGCAGAGACCCGCGTGGCGGTGAAGACGGTCAACGAGTCA
GCCAGTCTCCGAGAGCGATTGAGTTCCCTCAATGAGGCCTCGGTGCATGAAGGGCTTACCTGCCATCATG
TGGTGGCCTCCTGGGAGTGGTGTCCAAGGGCCAGCCACGCTGGTGGTGTGAGGCTGATGGTCCACGG
AGACCTGAAGAGCTACCTCCGTTCTCTGCGGCCAGAGGCTGAGAATAATCCTGGCCGCCCTCCCCCTACC
CTTCAAGAGATGATTGAGATGGCGGCAGAGATTGCTGACGGGATGGCCTACCTGAACGCCAAGAAGTTG
TGCATCGGGACCTGGCAGCGAGAACTGCATGGTCCCCATGATTTTACTGTCAAATTTGGAGACTTTGG
AATGACCAGAGACATCTATGAAACGGATTACTACCGAAAGGGGGCAAGGGTCTGCTCCCTGTACGGTGG
ATGGCACCGGAGTCCCTGAAGGATGGGGTCTTACCACCTTCTTCTGACATGTGGTCTTTGGCGTGGTCC
TTTGGGAAATCACCGACTTGGCAGAACAGCCTTACCAAGGCCTGTCTAATGAACAGGTGTTGAAATTTGT
CATGGATGGAGGGTATCTGGATCAACCCGACAACCTGTCCAGAGAGAGTCACTGACCTCATGCGCATGTGC
TGGCAATCAACCCCAAGATGAGGCCAACCTTCTGGAGATTGTCAACCTGCTCAAGGACGACCTGCACC
CCAGCTTTCAGAGGTGTCGTTCTTCCACAGCGAGGAGAACAAGGCTCCCAGAGTGGAGGCTGGAGAT
GGAGTTTGGAGCATGGAGAATGTGCCCTGGACCGTTCTCGCACTGTGAGAGGAGGAGGCGGGGGG
CGGGATGGAGGGTCTCGCTGGGTTTCAAGCGGAGCTACGAGGAACACATCCCTTACACACACATGAACG
GAGGCAAGAAAAACGGGCGGATTCTGACCTTGCCTCGGTCCAATCCTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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_001079817.1 , NP_001073285.1
RefSeq Size:	9023 bp
RefSeq ORF:	4113 bp
Locus ID:	3643
UniProt ID:	P06213
Cytogenetics:	19p13.2
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Adherens junction, Insulin signaling pathway, Type II diabetes mellitus

