

### Specifications:

Gene:	hINSR
Accession:	NP_001073285
Insert size:	4126bp
Concentration:	10µg at 0.2µg/µL

### Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

### Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

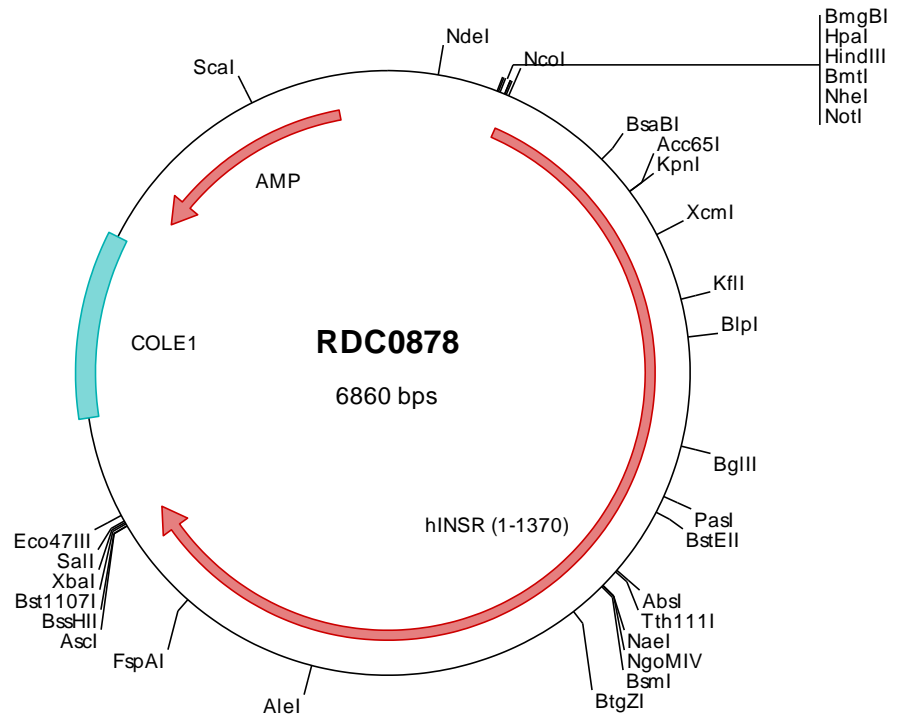
## hInsulin R/CD220 cDNA Plasmid

INSR insulin receptor [ *Homo sapiens* (human) ]

Also known as: HHF5; CD220

### Summary:

INSR is a type I transmembrane glycoprotein in the Insulin/IGF Receptor subfamily of the receptor tyrosine kinases. It is post-translationally cleaved into an extracellular alpha-subunit and a transmembrane beta-subunit with intracellular tyrosine kinase activity. The insulin receptor homodimers are activated by insulin and, in adults, mediate an increase in glucose uptake through upregulation of GLUT4 expression. Decreases in INSR signaling causing 'insulin resistance' is a major component in the development of type 2 diabetes. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0878 Plasmid DNA Sequence

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### > RDC0878 Translated Insert Sequence

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