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Product datasheet for MR227067

Insr (NM_010568) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Insr (NM_010568) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Insr
Synonyms:	4932439J01Rik; CD220; D630014A15Rik; I; IR; IR-A; IR-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR227067 representing NM_010568
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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GACCAGGCATCGTGTGAAAATGAATTGCTTAAATTTTCTTTCATTCGGACATCTTTTGACAAGATCCTGT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR227067 representing NM_010568
Red=Cloning site Green=Tags(s)

MGFGRGCETTAVPLLVAVAALLVGTAGHLYPGEVCPGMDIRNNLTRLHELENCSVIEGHLQILLMFKTRP
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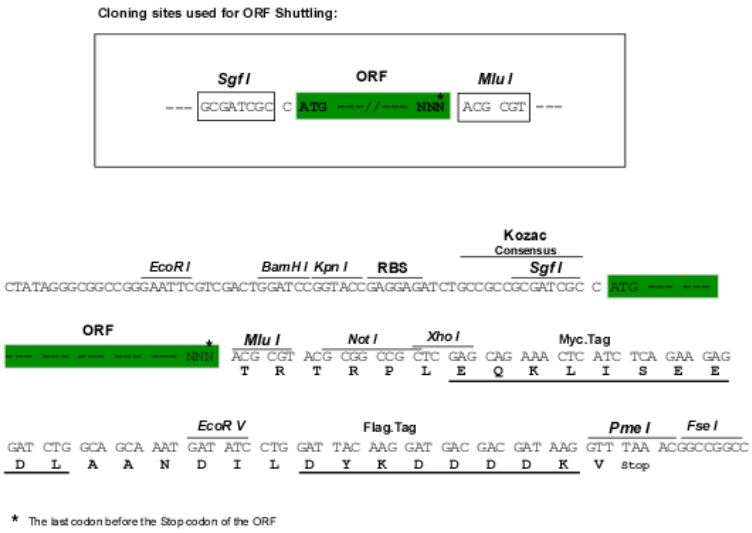
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1703_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

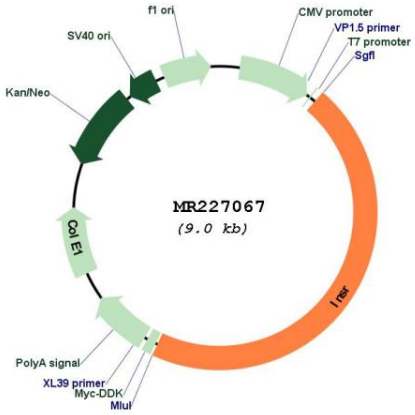


ACCN: NM_010568

ORF Size: 4116 bp

OTI Disclaimer:	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. 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.
RefSeq:	NM_010568.3
RefSeq Size:	9357 bp
RefSeq ORF:	4119 bp
Locus ID:	16337
UniProt ID:	P15208
Cytogenetics:	8 1.82 cM
MW:	156.1 kDa
Gene Summary:	This gene encodes a member of the receptor tyrosine kinase family of transmembrane signaling proteins that play important roles in cell differentiation, growth and metabolism. The encoded preproprotein undergoes proteolytic processing to generate alpha and beta chains that form a disulfide-linked heterodimer which, in turn homodimerizes to form a mature, functional receptor. Mice lacking the encoded protein develop severe hyperglycemia and hyperketonemia, and die within a couple of days after birth as a result of diabetic ketoacidosis. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR227067