

Product datasheet for **RR206261**

Insig1 (NM_022392) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Insig1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RR206261 representing NM_022392
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCCAGGCTGCACGATCACGTCTGGAGCTACCAAGCGCGGGCGCTGCGAGGCGGTACAGCCTCCCGC
GAGGCATGATTGCGGGGCCCTCTGTCGAGGGCCCCGAGCCCCGAGCCCGAGCCCGCGCCCGGGG
CCAGCGAGAGGGAACCGCAGGCTTCAGCGCAGACCCGGCAGCTGGCACCACGACCTGGTGCAGCGGAGC
CTCGTGCTCTTCTCATTGGCGTGGTCTGGCTCTGGTCTCAACCTGCTGCAGATCCAGCGGAATGTCA
CGCTCTTCCCGGACGAGGTGATAGCCACCATCTTCTCCTCCGCTGGTGGTGCCCCGTGCTGTGGCAC
GGCAGCCGCTGTTGTCGGCTTATTGTATCCCTGTATTGACAGTCACCTGGGAGAACCACACAAGTTCAAG
AGAGAGTGGGCCAGTGTATGCGATGTATCGCGGTGTTTGTGGCATCAACCATGCCAGTGCCAAATTAG
ATTTCCGAATAATGTGCAGCTGTCCTGACTCTGGCAGCCCTATCCTTGGGCTTGTGGTGGACGTTTGA
TCGATCCCGAAGTGGCTGGGGCTCGGGATCACCATCGCCTTCCTAGCCACGCTGATCACTCAGTTTCTT
GTTTATAATGGCTCTACAGTACAGTCCCCAGATTTCTCTATATCCGTTCTTGGCTCCCTTGATAT
TTTTCTCAGGAGGTGTACAGTGGGAAACATAGGACGACAGTTAGCTATGGGTGTTCCAGAAAAGCCTCA
CAGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RR206261 representing NM_022392

Red=Cloning site Green=Tags(s)

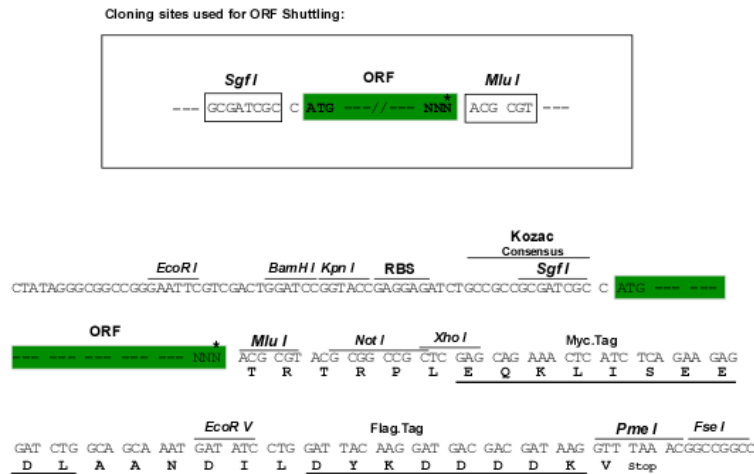
MPRLHDHVWSYPSAGAARPYSLPRGMIAAALCPQPGAPEPEPAPRGQREGTAGFSARPGSWHDLVQRS
LVLFSGVVLALVLNLLQIQNVTLFPDEVIATIFSSAWVPPCCGTAAAVVGLLYPCIDSHLGEPHKFK
REWASVMRCIAVFVGINHASAKLDFANNVQLSLTLAALSLGLWWTFRSRSGLGLGITIAFLATLITQFL
VYNGVYQYTSDFLYIRSWLPCIFFSGGVTGNIQRQLAMGVPEKPHSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN:

NM_022392

ORF Size:

777 bp

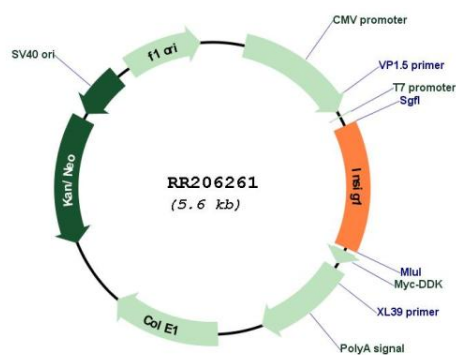
OTI Disclaimer:

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_022392.1 , NP_071787.1
RefSeq Size:	2410 bp
RefSeq ORF:	780 bp
Locus ID:	64194
UniProt ID:	Q08755
Cytogenetics:	4q11
MW:	28.2 kDa
Gene Summary:	insulin-induced growth response gene; may play a role in regulating intracellular cholesterol concentrations [RGD, Feb 2006]

Product images:



Circular map for RR206261