

Product datasheet for **RR210393**

Isl1 (NM_017339) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Isl1 (NM_017339) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Isl1
Synonyms: Isl-1; isl-1=homeobox
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR210393 representing NM_017339
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAGACATGGGCGATCCACCAAAAAAAAAACGTCTGATTTCCCTATGTGTTGGTTGCGGTAATCAAA
 TTCACGATCAGTATATTCTGAGGGTTTCTCCGGATTTGGAATGGCATGCGGCATGTTTGAATGTGCGGA
 GTGTAATCAGTATTTGGACGAAAGCTGTACCTGCTTTGTAGGGACGGGAAAACCTACTGTAAAAGAGAT
 TATATCAGGTTGTACGGGATCAAATGCGCCAAGTGCAGCATAGGCTTCAGCAAGAACGACTTCGTGATGC
 GCGCCCGCTCTAAGGTGTACCACATCGAATGTTTCCGCTGTGTAGCATGCAGCCGACAGCTCATCCCGGG
 AGACGAATTCGCGCTGCGGGAGGATGGGCTTTTCTGCCGCGCGGACCACGATGTAGTGGAGAGGGCCAGC
 CTAGGAGCTGGAGACCCTCTCAGTCCCTTGATCCAGCGCGGCCTCTGCAAATGGCAGCCGAGCCCATCT
 CCGCTAGGCAGCCAGCTCTGCGGCCGACGTCACAAAACAGCCCGAGAAGACCACCCGAGTGCAGGACTGT
 GCTCAACGAAAAGCAGCTGCACACCTTGCAGCCTGCTACGCAGCCAACCCCTCGGCCAGATGCGCTCATG
 AAGGAGCAACTAGTGGAGATGACCGCCCTCAGTCCCCGAGTCATCCGGTCTGGTTTCAAAAAGAGGT
 GCAAGGACAAGAAACGCAGCATCATGATGAAGCAGCTCCAGCAGCAGCAACCAACGACAAAACCTAATAT
 CCAGGGGATGACAGGAACTCCCATGGTGGCTGCTAGTCCGGAGAGACATGATGGTGGTTTACAGGCTAAC
 CCAGTTGAGGTGCAAAGTTACCAGCCGCCCTGAAAGTACTGAGTACTTCGCCTTCAAAGTGCATAG
 ATCAGCCTGCTTTTTCAGCAACTGGTCAATTTTTTCAGAAGGAGGACCAGGCTCTAATTCCTGCGAGTGA
 AGTAGCATCGATGTCCTCTCAGCTCCAGATACACCAACAGCATGGTAGCCAGTCTATAGAGGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210393 representing NM_017339
 Red=Cloning site Green=Tags(s)

MGDMGDPPKKRLISLCVGCNQIHDQYILRVSPDLEWHAACLKCAECNQYLDESCTCFVRDGKTYCKRD
 YIRLYGIKCAKCSIGFSKNDFVMRARSKYVYHIECFRCVACSRQLIPGDEFALREDGLFCRADHDVVERAS
 LGAGDPLSPLHPARPLQMAAEPISARQPALRPHVHKQPEKTTRVRTVLNEKQLHLTRLTCYAANPRPDALM
 KEQLVEMTGLSPRVIRVWFQNKRCCKDKRSIMMKQLQQQPNDKTNIQGMTGTPMVAASPERHDGGLQAN
 PVEVQSYQPPWKVLSDFALQSDIDQPAFQQLVNFSEGGPGSNSTGSEVASMSSQLPDTPNMSMVASPIEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3462_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017339

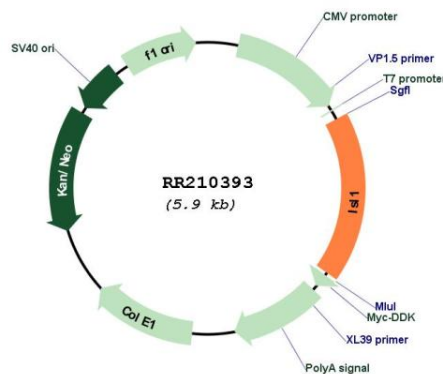
ORF Size: 1047 bp

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:	<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_017339.3 , NP_059035.3
RefSeq Size:	1060 bp
RefSeq ORF:	1050 bp
Locus ID:	64444
UniProt ID:	P61374
Cytogenetics:	2q14
MW:	39 kDa
Gene Summary:	transcription factor; may regulate insulin gene expression or islet cell development [RGD, Feb 2006]

Product images:



Circular map for RR210393