

Product datasheet for **SC125257**

Islet 1 (ISL1) (NM_002202) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Islet 1 (ISL1) (NM_002202) Human Untagged Clone
Tag:	Tag Free
Symbol:	Islet 1
Synonyms:	Isl-1; ISLET1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125257 sequence for NM_002202 edited (data generated by NextGen Sequencing)

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ATGGGAGACATGGGAGATCCACCAAAAAAAAAACGTCTGATTTCCCTATGTGTTGGTTGC
GGCAATCAGATTCACGATCAGTATATTCTGAGGGTTTCTCCGGATTTGGAATGGCATGCG
GCATGTTTGAAATGTGCGGAGTGAATCAGTATTTGGACGAGAGCTGTACATGCTTTGTT
AGGGATGGGAAAACCTACTGTAAAAGAGATTATATCAGGTTGTACGGGATCAAATGCGCC
AAGTGCAGCATCGGCTTCAGCAAGAACGACTTCGTGATGCGTGCCCGCTCCAAGGTGTAT
CACATCGAGTGTTCGGCTGTGTGGCCTGCAGCCGCCAGCTCATCCCTGGGGACGAATTT
GCGCTTCGGGAGGACGGTCTCTTCTGCCGAGCAGACCACGATGTGGTGGAGAGGGCCAGT
CTAGGCGCTGGCGACCCGCTCAGTCCCCTGCATCCAGCGCGGCCACTGCAAATGGCAGCG
GAGCCCATCTCCGCCAGGCAGCCAGCCCTGCGGCCCCACGTCCACAAGCAGCCGGAGAAG
ACCACCCGCGTGCGGACTGTGCTGAACGAGAAGCAGCTGCACACCTTGCGGACCTGCTAC
GCCGCAAACCCGCGGCCAGATGCGCTCATGAAGGAGCAACTGGTAGAGATGACGGGCCTC
AGTCCCCGTGTGATCCGGGTCTGGTTTCAAACAAGCGGTGCAAGGACAAGAAGCGAAGC
ATCATGATGAAGCAACTCCAGCAGCAGCAGCCCAATGACAAAATAATATCCAGGGGATG
ACAGGAACTCCCATGGTGGCTGCCAGTCCAGAGAGACACGACGGTGGCTTACAGGCTAAC
CCAGTGAAGTACAAAGTTACCAGCCACCTTGAAAGTACTGAGCGACTTCGCCTGTCAG
AGTGACATAGATCAGCCTGCTTTTCAGCAACTGGTCAATTTTTTTCAGAAGGAGGACCGGGC
TCTAATCCACTGGCAGTGAAGTAGCATCAATGTCCTCTCAACTTCCAGATACACCTAAC
AGCATGGTAGCCAGTCTATTGAGGCATGA
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Clone variation with respect to NM_002202.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002202 unedited GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCCAGGCGGCGCGCCGGGAAGG AACGCGGGAGGGGACAGAAGGAAGAGGAAGAGGAGGAGAGGGAGGCCAGAGCCAGAACAG CCCGGCAGCCCGAGCTTCGGGGGAGAACGGCCTGAGCCCCGAGCAAGTTGCCTCGGGAGC CCTAATCCTCTCCCGTGGCTCGCCGAGCGGTCACTGGCGCTCAGCGGCGCGGAGGCTGA AATATGATAATCAGAACAGCTGCGCCGCGGCCCTGCAGCCAATGGGCGCGGCGCTCGCC TGACGTCCCCGCGCGCTGCGTCAGACCAATGGCGATGGAGCTGAGTTGGAGCAGAGAAGT TTGAGTAAGAGATAAGGAAGAGAGGTGCCCGAGCCGCGCCGAGTCTGCCGCCGCCGAGC GCCTCCGCTCCGCCAACTCCGCCGGCTTAAATTGGACTCCTAGATCCGCGAGGGCGCGGC GCAGCCGAGCAGCGGCTCTTTCAGCATTGGCAACCCAGGGGCCAATATTTCCCAACTT AGCCACAGCTCCAGCANTCCTCTCTGTGGGCTGTTACCAACTGTACAACCACCATTTCA CTGTGGACATTACTCCCTCTTACAGATATGGGAGACATGGGAGATCCACCAAAAAAAAAA CGTCTGATTTCCCTATGTGTTGGTGCGGCAATCAGATTCAGATCAGTATATTCTGAGGG TTTCTCCGGATTGGAATGGCATGCGGCATGTTTGAATGTGCGG
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002202 unedited AACTTCCCGGCCAGGAGAGGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTT CAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTT TCCTTTTTATTTCCATAGAGAGAGAAAAACAGTCATTTTAAACCAATAACTATACACATCTT TGGGGGAAAAGTTCTTGGACAGACACAAGTCAAACACAATCCCGAGACGCTTGTGGCAA ATAGAGGTAACCTTGTGCAATGCTTTAAGTTGGTTTTTAAATCTGAATTCAAAAACC TTTATAGTCGCTTCAGACTTCTTGATAAAGGATGGATCTCAAAAAAGTGGGAGGGGGC AAAGTAAAAATAAACCGACTACAGGACAGGCCAAGAGACCCAGGATTTCAATTAACCC TTGTTAAAGTCAACTTTAAACATATCAAACCAATGCAGCTCCACCTTCTGAAAGGACTC TTTAGCCAAGGAGGCCAGTCTCTCTTCTGCGCTTTTGTGGAGCTCCTGTTTGGCAAG GCAATGACCAATATAGAAACAGCACCATTAGATTAGGATGGACTAGAAAATTTTCTATT TTTGTTTTTCTCTAGATGTGCAGTGAATGAAATGCTTTCTTTGAGATCCTTGAATATA AATCCTCTCGTTTTAAAAACGCTTTTTTTTTTAGTACTTCTAGATCATTAATAGCATATA CTGTTTTGCGTTTTGNTGTGGTAAATCTAGTAAATC
Restriction Sites:	Please inquire
ACCN:	NM_002202
Insert Size:	2800 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_002202.1</u> , <u>NP_002193.1</u>

RefSeq Size: 2397 bp
RefSeq ORF: 1041 bp
Locus ID: 3670
UniProt ID: [P61371](#)

Cytogenetics: 5q11.1

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

Gene Summary: This gene encodes a member of the LIM/homeodomain family of transcription factors. The encoded protein binds to the enhancer region of the insulin gene, among others, and may play an important role in regulating insulin gene expression. The encoded protein is central to the development of pancreatic cell lineages and may also be required for motor neuron generation. Mutations in this gene have been associated with maturity-onset diabetes of the young. [provided by RefSeq, Jul 2008]