

Product datasheet for **SC322127**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322127
 TGAAGGAAGAGGAAGAGGAGGAGGGAGGCCAGAGCCAGAACAGCCCGGCAGCCCGGGC
 TTCGGGGGAGAACGGCCTGAGCCCCGAGCAAGTTGCCTCGGGAGCCCTAATCCTCTCCC
 CTGGCTCGCCGAGCGGTCACTGGCGCTCAGCGCGGCGAGGCTGAAATATGATAATCAGA
 ACAGCTGCGCCGCGCCCTGCAGCCAATGGGCGCGGCGCTCGCTGACGTCCCCGCGG
 CTGCGTCAGACCAATGGCGATGGAGCTGAGTTGGAGCAGAGAAGTTTGTAGTAAGAGATAA
 GGAAGAGAGGTGCCCGAGCCGCGGAGTCTGCCGCCCGCAGCGCCTCCGCTCCGCCA
 ACTCCCGCGCTTAAATTGGAATCCTAGATCCGCGAGGGCGGGCGCAGCCGAGCAGCGG
 CTCTTTCAGCATTGGCAACCCAGGGGCAATATTTCCCACTTAGCCACAGCTCCAGCAT
 CCTCTCTGTGGGCTGTTACCAGCTGTACAACCACCATTTCACTGTGGACATTACTCCCT
 CTTACAGATATGGGAGACATGGGAGATCCACCAAAAAAAAAACGTCTGATTTCCCTATGT
 GTTGGTTGCGGCAATCAGATTCACGATCAGTATATTCTGAGGGTTTCTCCGGATTTGGAA
 TGGCATGCGGCATGTTTGAATGTGCGGAGTGAATCAGTATTTGGACGAGAGCTGTACA
 TGCTTTGTAGGGATGGGAAAACCTACTGTAAAAGAGATTATATCAGGTTGTACGGGATC
 AAATGCGCAAGTGCAGCATCGGCTTCAGCAAGAACGACTTCGTGATGCGTGCCCGCTCC
 AAGGTGTATCACATCGAGTGTTCGCTGTGTGGCCTGCAGCCGCGAGCTCATCCCTGGG
 GACGAATTTGCGCTTCGGGAGGACGGTCTCTTCTGCCGAGCAGACCACGATGTGGTGGAG
 AGGGCCAGTCTAGGCGCTGGCGACCCGCTCAGTCCCTGCATCCAGCGCGGCCACTGCAA
 ATGGCAGCGGAGCCCATCTCCGCCAGGCAGCCGGCCCTGCGGCCCCACGTCCACAAGCAG
 CCGGAGAAGACCACCCGCGTGGGACTGTGCTGAACGAGAAGCAGCTGCACACCTTGCGG
 ACCTGCTACGCCGCAAACCCGCGCCAGATGCGCTCATGAAGGAGCAACTGGTAGAGATG
 ACGGGCCTCAGTCCCGTGTGATCCGGTCTGGTTTCAAAACAAGCGGTGCAAGGACAAG
 AAGCGAAGCATCATGATGAAGCAACTCCAGCAGCAGCAGCCCAATGACAAAACTAATATC
 CAGGGGATGACAGGAATCCCATGGTGGCTGCCAGTCCAGAGAGACACGACGGTGGCTTA
 CAGGCTAACCCAGTGAAGTACAAGTTACCAGCCACCTTGAAAAGTACTGAGCGACTTC
 GCCTTGACAGAGTACATAGATCAGCCTGCTTTTCAGCAACTGGTCAATTTTTCAGAAGGA
 GGACCGGGCTCTAATCCACTGGCAGTGAAGTAGCATCAATGTCCTCTCAACTCCAGAT
 ACACCTAACAGCATGGTAGCCAGTCTATTGAGGCATGAGGAACATTCATTCTGTATTTT
 TTTTCCCTGTTGGAGAAAGTGGGAAATTATAATGTGCAACTCTGAAACAAAAGTATTTAA
 CGACCCAGTCAATGAAAAGTGAATCAAGAAATGAATGCTCCATGAAATGCACGAAGTCTG
 TTTAATGACAAGGTGATATGGTAGCAACTGTGAAGACAATCATGGGATTTTACTAGA
 ATTAACAACAAAACAAAACGCAAAACCCAGTATATGCTATTCAATGATCTTAGAAGTACT
 GAAAAAAAAAAGACGTTTTTAAAACGTAGAGGATTTATATTCAAGGATCTCAAAGAAGCA
 TTTTCATTTCACTGCACATCTAGAGAAAAACAAAATAGAAAAATTTTCTAGTCCATCCTA
 ATCTGAATGGTGTGTTTCTATATTGGTCATTGCCTTGCCAAACAGGAGCTCCAGCAAAA
 GCGCAGGAAGAGAGACTGGCCTCCTTGGCTGAAAGAGTCTTTTCAGGAAGGTGGAGCTGC
 ATTGGTTTGATATGTTTAAAGTTGACTTTAACAAGGGTTAATTGAAATCCTGGGTCTCT
 TGGCCTGTCTGTAGCTGGTTTATTTTTACTTTGCCCCCTCCCCACTTTTTTTGAGATC
 CATCCTTTATCAAGAAGTCTGAAGCGACTTTAAGGTTTTTGAATTCAGATTTAAAAACC
 AACTTATAAAGCATTGCAACAAGTTACCTCTATTTTGCCACAAGCGTCTCGGGATTGTG
 TTTGACTTGTGTCTGTCCAAGAATTTTCCCCCAAGATGTGTATAGTTATTGGTAAAA
 TGACTGTTTTCTCTCTATGGAATAAAAAGGAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002202

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_002202.2 , NP_002193.2
RefSeq Size:	2729 bp
RefSeq ORF:	1050 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]