

Product datasheet for **SC117057**

ICA1 (NM_004968) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICA1 (NM_004968) Human Untagged Clone
Tag:	Tag Free
Symbol:	ICA1
Synonyms:	ICA69; ICAp69
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004968, the custom clone sequence may differ by one or more nucleotides

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ATGTCAGGACACAAATGCAGTTATCCCTGGGACTTACAGGATCGATATGCTCAAGATAAGTCAGTTGTAA
ATAAGATGCAACAGAAATATTGGGAGACGAAGCAGGCCTTTATTAAGCCACAGGGAAGAAGGAAGATGA
ACATGTTGTTGCCTCTGACGCGGACCTGGATGCCAAGCTAGAGCTGTTTCATTCAATTCAGAGAACCTGT
CTGGACTTATCGAAAGCAATTGTACTCTATCAAAAGAGGATATGTTTCTGTCTCAAGAAGAAAACGAAC
TGGGAAAATTTCTTCGATCCCAAGGTTTCCAAGATAAAACCAGAGCAGGAAAGATGATGCAAGCGACAGG
AAAGGCCCTCTGCTTTTCTCCAGCAAAGTTGGCCTTACGAAATCCTTTGTGTCGATTTACCAAAGAA
GTGGAGACTTTTCGGCATCGGGCATCTCAGATACTTGGCTGACGGTGAACCGCATGGAACAGTGCAGGA
CGGAATATAGAGGAGCACTATTATGGATGAAGGACGTGTCTCAGGAGCTTGATCCAGACCTTACAAGCA
AATGGAGAAGTTCAGGAAGGTACAACACAAGTGCCTTGCAAAAAAAAACTTTGACAAATTGAAGATG
GATGTTTGTCAAAAAGTGGATCTTCTTGGAGCGAGCAGATGCAATCTCTTGTCTCACATGCTAGCAACAT
ACCAGACCACTCTGCTTCATTTTTGGGAGAAAACCTTCTCACACTATGGCAGCCATCCATGAGAGTTTCAA
AGGTTATCAACCATATGAATTTACTACTTTAAAGAGCTTACAAGACCCTATGAAAAATTAGTTGAGAAA
GAAGAGAAGAAGAAAATCAACCAGCAGGAAAGTACAGATGCAGCCGTGCAGGAGCCGAGCCAATTAATTT
CATTAGAGGAAGAAAACCAAGCAAGGAATCCTCTAGTTTTAAGACTGAAGATGGAAAAAGTATTTTATC
TGCTTAGACAAAAGGCTACACATACTGCATGCTCAGGACCCATAGATGAACTATTAGACATGAAATCT
GAGGAAGGTGCTTGCCTGGGACCAGTGGCAGGGACCCCGAACCTGAAGGTGCTGACAAAAGATGACCTGC
TGCTGTTGAGTGAGATCTTCAATGCTTCTCCTTGGAAAGAGGGCGAGTTAGCAAAAGAGTGGGCCGCTGT
GTTTGGAGACGGCCAAGTGAAGGAGCCAGTGCCCACTATGGCCCTGGGAGAGCCAGACCCCAAGGCCAG
ACAGGCTCAGGTTTCTTCTCCTTCGCAGCTTTTAGACCAAATATGAAAGACTTACAGGCCTCGCTACAAG
AACCTGCTAAGGCTGCCTCAGACCTGACTGCCTGGTTCAGCCTCTTCGCTGACCTCGACCCACTCTCAA
TCCTGATGCTGTTGGGAAAACCGATAAAGAACACGAATTGCTCAATGCATGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004968 unedited AAAATTTGTATACGACNACTATAGGCGGCCGCGNATTCGGCACGAGGGTCGGATGAGTGA TCCGGAGGGACGCTCCGACCGCGCCGGGAGGCTCCTGGGGCCGGGGCTCCGAGTTAT AATATAACTTATCCTCTCATGCTTTTTCTGCCCTTCTCCCAATCATCAACAATAG AAGAAGAAGAAAACATGTCAGGACACAAATGCAGTTATCCCTGGGACTTACAGGATCGAT ATGCTCAAGATAAGTCAGTTGTAATAAGATGCAACAGAAATATTGGGAGACGAAGCAGG CCTTTATTAAGCCACAGGGAAGGAAGATGAACATGTTGTTGCCTCTGACGCGGACC TGGATGCCAAGCTAGAGCTGTTTCATTCAATTCAGAGAACCTGTCTGGACTTATCGAAAG CAATTGTACTCTATCAAAAGAGGATATGTTTCTGTCTCAAGAAGAAAACGAACTGGGAA AATTTCTTCGATCCCAAGTTTCCAAGATAAAACCAGAGCAGGAAAGATGATGCAAGCGA CAGGAAAGGCCCTCTGCTTTTCTCCAGCAAAGTTGGCCTTACGAAATCCTTTGTGTC GATTTACCAAGAAGTGGAGACTTTTCGGCATCGGGCCATCTCAGATACTTGCTGACGG TGAACCGCATGGAACAGTGCAGGACGGAATATAGAGGAGCACTATTATGGATGAAGGACG TGCTCAGGAGCTTGATCCAGACCTCTACAGCAAATGGAGAAGTTCAGGAAGGTACAAC ACAAGTGGCCTTGCANAAAAAATTTGACCAATGAAGATGGATGTTTTGTCAAAAGTGG ATCTTCTTGGNAGCGAGCAGATGCATCTTGTCTCAATGCTAGCACATACAGACCTCT GCTCATTTTTGGGAGAACTCTCACCTATGCAGCCTCCTGAGAGTTCAN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004968 unedited TTGTTCTGTTCTTATTTTAAAAAACATGTCACAGAGGCTTCANAATACATGCTTTTGAA TTCCAGCCACGAAGAGGACAAAAGGAGACAGTGGTATCTGCAAATATGGTGCTTTCCAT AGTAAGGTTTGTGCTTGGACAGAAGCCCAGCTCCTCCACAGTGTGAGAACACGTGGCC CACCAGGCACCTGCTGTGGGGACAGTGTCTTTGGTTGGCCAGAGCTTCATCCAGAGCTCA CTGGAAGGTGGCTTGGCAGGAAGAGGGAATCTTCTACAGCCCTCCTCAAGGGGACAG AGGCTGGGGGCAGAGAAGGAGGCATTTAAGCTTGTAGCCTCCTGCTGCCTCTGAGGCT GTAGGACACGTCATTCAAACCTACCATCAAAGTAGGCTTCTGATTTCACTTGGATCTCA CGGTAGCCAGTACACCCGACGAGCCATGATGGGATGTAGGCAGGAGAGCGGTGGCCTG GAAACCGTCTAGACAATCCTGTATTATTTAGATCCACATAGAGATACACGAAAACCTT TTATACCAAATAAGAGTAAATAATTATACCAATATAAACAGGGCCGTTGACCTTTTCATT TTATTTAAATGGCACATAAATTATTTAAACAGCATACTGATCACTTTATACTTCTGCTAGC CCCCAGGGGAGCTGCTGGGGCAGCATGTGAGTGCCTCCCGAAGGTACAGATTATGCA TTGAGCAATTCGTGTTCTTTATCGGTTTTCCACAGCATCAGGATTTGAGAGTGGTTCGA GGTCACGAAGAGCTGAACCAGCAGTCAAGTCTGAAGCAGCCTTACANGTTCTGTACCAA GGCTGTNAGTCTTTCATATTTGGCTAAACCTGCGAAGGAAGGAACCTGAACCTGCCTGG CCCTGGGGTCTGGCTTTCAGGCCATATTGGCACTGTCTTCACTGGACGTTT</p>
Restriction Sites:	ECORI-NOT
ACCN:	NM_004968
Insert Size:	2550 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:

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_004968.1](#), [NP_004959.1](#)

RefSeq Size: 2458 bp

RefSeq ORF: 774 bp

Locus ID: 3382

UniProt ID: [Q05084](#)

Cytogenetics: 7p21.3

Domains: ICA69

Protein Pathways: Type I diabetes mellitus

Gene Summary: This gene encodes a protein with an arfaptin homology domain that is found both in the cytosol and as membrane-bound form on the Golgi complex and immature secretory granules. This protein is believed to be an autoantigen in insulin-dependent diabetes mellitus and primary Sjogren's syndrome. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2013]
Transcript Variant: This variant (2) has an alternate first exon (5' UTR) compared to variant 3. Variants 1, 2, 3, 5, and 6 all encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.