

Product datasheet for **SC112522**

ICA1 (NM_022307) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICA1 (NM_022307) 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)



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Fully Sequenced ORF: >OriGene ORF within SC112522 sequence for NM_022307 edited (data generated by NextGen Sequencing)

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ATGTCAGGACACAAATGCAGTTATCCCTGGGACTTACAGGATCGATATGCTCAAGATAAG
TCAGTTGTAATAAGATGCAACAGAAATATTGGGAGACGAAGCAGGCCTTTATTAAGCC
ACAGGGAAGAAGGAAGATGAACATGTTGTTGCCTCTGACGCGGACCTGGATGCCAAGCTA
GAGCTGTTTCATTCAATTCAGAGAACCTGTCTGGACTTATCGAAAGCAATTGTACTCTAT
CAAAAGAGGATATGTTTCTGTCTCAAGAAGAAAACGAACTGGGAAAATTTCTTCGATCC
CAAGGTTTCCAAGATAAAACCAGAGCAGGAAAGATGATGCAAGCGACAGGAAAGGCCCTC
TGCTTTTCTTCCAGCAAAGGTTGGCCTTACGAAATCCTTTGTGTCGATTCACCAAGAA
GTGGAGACTTTTCGGCATCGGGCCATCTCAGATACTTGGCTGACGGTGAACCGCATGGAA
CAGTGCAGGACGGAATATAGAGGAGCACTATTATGGATGAAGGACGTGTCTCAGGAGCTT
GATCCAGACCTCTACAAGCAAATGGAGAAGTTCAGGAAGGTACAAACACAAGTGCGCCTT
GCAAAAAAAAACCTTTGACAAATTGAAGATGGATGTTTGTCAAAAAGTGGATCTTCTTGA
GCGAGCAGATGCAATCTTGTCTCACATGCTAGCAACATACCAGACCACTCTGCTTCAT
TTTTGGGAGAAAACCTTCCACACTATGGCAGCCATCCATGAGAGTTTCAAAGTTATCAA
CCATATGAATTTACTACTTTAAAGAGCTTACAAGACCCTATGAAAAAATAGTTGAGAAA
GAAGAGAAGAAGAAAATCAACCAGCAGGAAAGTACAGATGCAGCCGTGCAGGAGCCGAGC
CAATTAATTTTCATTAGAGGAAGAAAACCAGCGCAAGGAATCCTCTAGTTTTAAGACTGAA
GATGGAAAAAGTATTTTATCTGCCTTAGACAAAGGCTCTACACATACTGCATGCTCAGGA
CCCATAGATGAACTATTAGACATGAAATCTGAGGAAGGTGCTTGCCTGGGACCAGTGGCA
GGGACCCCGAACCTGAAGGTGCTGACAAAAGATGACCTGCTGCTGTTGAGTGAGATCTTC
AATGCTTCCTCCTTGAAGAGGGCGAGTTCAGCAAAGAGTGGGCCGCTGTGTTGGAGAG
GGCCAAGTGAAGGAGCCAGTGCCTACTATGGCCCTGGGAGAGCCAGACCCCAAGGCCAG
ACAGGCTCAGGTTTCTTCTTCCAGCTTTTAGACCAAATATGAAAGACTTACAGGCC
TCGCTACAAGAACCTGCTAAGGCTGCCTCAGACCTGACTGCCTGGTTCAGCCTCTCGCT
GACCTCGACCACTCTCAAATCCTGATGCTGTTGGGAAAACCGATAAAGAACACGAATTG
CTCAATGCATGA
    
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Clone variation with respect to NM_022307.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_022307 unedited
TTTGTATACGACTACTATAGGGCGGCCGAATTCGCACGAGGCCAGGAGATGGGGGTC
GAGGAGAGACCCCGGGGAGTAGAGAGAGAGAACTCACTCCCCGAGTCCCCGACCCTCCC
CAAGCAAGAAGAAGAAGAAAACATGTCAGGACACAAATGCAGTTATCCCTGGGACTTACA
GGATCGATATGCTCAAGATAAGTCAGTTGTAATAAGATGCAACAGAAATATTGGGAGAC
GAAGCAGGCCTTTATTAAGCCACAGGGAAGAAGGAAGATGAACATGTTGTTGCCTCTGA
CGCGGACCTGGATGCCAAGCTAGAGCTGTTTCATTCAATTCAGAGAACCTGTCTGGACTT
ATCGAAAAGCAATTGTACTCTATCAAAAGAGGATATGTTTCTTGTCTCAAGAAGAAAACGA
ACTGGGAAAATTTCTTCGATCCCAAGGTTTCCAAGATAAAACCAGAGCAGGAAAGATGAT
GCAAGCGACAGGAAAGGCCCTCTGCTTTTCTTCCAGCAAAGGTTGGCCTTACGAAATCC
TTTGTGTCGATTTACCAAGAAGTGGAGACTTTTCGGCATCGGGCCATCTCAGATACTTG
GCTGACGGTGAACCGCATGGAACAGTGCAGGACGGAATATAGAGGAGCACTATTATGGAT
GAAGGNACGTGTCTCAGGAGCTTGATCCAGACCTCTACAGCAATGGNAGAAGTCANGGAG
GTACAACACAAGTGCCTTGTCAAAAANAAAACTTGACAATGAAGAGGGNATGTTGTCAA
AAGTGGATCTTCTTGGACGAGCAGATGCATCTCTGTCTCAATGCTAGCACATACCAGACA
CTCTGCTTATTTTGGGAGAAAACCTAACTATGGCAGNCATCATGAAAGTTCAAGGTT
ATCACATT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022307 unedited CGCGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGCATGTCAAATATCTTTT CTGTTTAAATAAAAAAAAAAAAAAAAACAATGTCACAAGAGGCTTCAGAAATACATGCTCT TTGAATTCAGCCACGAAGAGGACAAAAGGAGACAGGTGGTATCTGCAAATATGGCTGCT TTCCATAGTAAGGTTTGTGCCTTNGAGAGAAGCCAGCTCCTCCACCAGTGTNGAGAAC ACGTGGCCACCAAGCACCTGCTGTGGGGACCAGTGTCTTTGGTTGGCCAGAGCTCCAT CCAGAGCTTACTGAAAAGGTGGCTTGGCCAGAAAAAGGGAATCTTTCCTACAGCCCTCC TTCCAGGGGGACAAAAGGCCTGGGGGCCAAAAGGAGGCCTTTTAACTTTGTTTACCC CCCTGGTCGCCTTTGGGGTTTGGAGAAACCTTTTTAAAACCTACCTTAAAAGAGGCTTT TGGGTTTAAACCTGGAATCTCCGGGGGCCCCCGGGCCCGGAAACCCCTTTTGGGT TTTTTCCAAAAAAGGGGGGCCCTTAAAAAACCTTTTTAAAAAACTTTGGTTT TTTTTTTCCCCCGAGAAAAACCCAAAACCCCTTTTCTCCACAAAAA TTTTTTCCCATTAAGGGGGCGGGCACCTTTTTTTTTTTTAAAGGGCCGCTTTT TTTATAATAAAAAAGGGGGGGTTTTTTTTTTTTTTTTCCCCCCCCAAAAAATAT TTGTGGGGGGGTTTATTGTGTCCCTCCCCGAGAGAAAAATTTTTTCTGGGGN AATTTTTTTTTTTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_022307
Insert Size:	2050 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:	NM_022307.1 , NP_071682.1
RefSeq Size:	2139 bp
RefSeq ORF:	1452 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 (1, also referred to as IS10) has an alternate first exon and uses an alternate splice junction, both in the 5' UTR, compared to variant 3. Variants 1, 2, 3, 5, and 6 all encode the same isoform (a).