

Product datasheet for **RC226813**

ICA1 (NM_001136020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICA1 (NM_001136020) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ICA1
Synonyms:	ICA69; ICAp69
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC226813 representing NM_001136020
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGGACACAAATGTTATCCCTGGGACTTACAGGATCGATATGCTCAAGATAAGTCAGTTGTAATA
 AGATGCAACAGAAATATTGGGAGACGAAGCAGGCCTTTATTAAAGCCACAGGGAAGAAGGAAGATGAACA
 TGTTGTTGCCTCTGACGCGGACCTGGATGCCAAGCTAGAGCTGTTTCATTCAATTCAGAGAACTGTCTG
 GACTTATCGAAAGCAATTGACTCTATCAAAGAGGATATGTTTCTTGTCTCAAGAAGAAAAACGAACTGG
 GAAAAATTTCTTCGATCCCAAGGTTTCCAAGATAAAACCAGAGCAGGAAAGATGATGCAAGCGACAGGAAA
 GGCCCTCTGCTTTTCTCCAGCAAAGGTTGGCCTTACGAAATCCTTTGTGTCGATTTCCACAAGAAGTG
 GAGACTTTTCGGCATCGGGCCATCTCAGATACTGGCTGACGGTGAACCGCATGGAACAGTGCAGGACGG
 AATATAGAGGAGCACTATTATGGATGAAGGACGTGTCTCAGGAGCTTGATCCAGACCTCTACAAGCAAT
 GGAGAAGTTCAGGAAGGTACAAACACAAGTGCCTTGCAAAAAAAACCTTTGACAAATTGAAGATGGAT
 GTTTGTCAAAAAGTGGATCTTCTGGAGCGAGCAGATGCAATCTCTTGTCTCACATGCTAGCAACATACC
 AGACCACTCTGCTTCATTTTGGGAGAAAACTTCTCACACTATGGCAGCCATCCATGAGAGTTTCAAAGG
 TTATCAACCATATGAATTTACTACTTTAAAGAGCTTACAAGACCCATGAAAAAATTAGTTGAGAAAAGAA
 GAGAAGAAGAAAAACAACCAGCAGGAAAGTACAGATGCAGCCGTGCAGGAGCCGAGCCAATTAATTTTCAT
 TAGAGGAAGAAAAACCAGCGCAAGGAATCCTCTAGTTTTAAGACTGAAGATGGAAGAAAGTATTTTATCTGC
 CTTAGACAAAGGCTCTACACATACTGCATGCTCAGGACCCATAGATGAACTATTAGACATGAAATCTGAG
 GAAGGTGCTTGCCTGGGACCAGTGGCAGGACCCCGAACCTGAAGGTGCTGACAAGATGACCTGCTGTC
 GTTTGAGTGAGATCTTCAATGCTTCTCCTTGGAAAGGGCGAGTTCAGCAAAGATGGGCGCTGTGTT
 TGGAGACGGCCAAGTGAAGGAGCCAGTGCCTTGCCTTGGAGAGCCAGACCCCAAGGCCCGCAGACA
 GGCTCAGGTTTCTTCTTCGCAGCTTTTAGACAAAAATATGAAAGACTTACAGGCTCGCTACAAGAAC
 CTGCTAAGGCTGCCTCAGACCTGACTGCCTGGTTCAGCCTCTTCGCTGACCTCGACCCACTCTCAAATCC
 TGATGCTGTTGGGAAAACCGATAAAGAACCGAATTGCTCAATGCA

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226813 representing NM_001136020
 Red=Cloning site Green=Tags(s)

MSGHKCYPWDLQDRYAQDKSVVNMQQKYWETKQAFIKATGKKEDEHVVASDADLDAKLELFHSIQRTCL
 DLSKAIIVLYQKRICFLSQEENELGKFLRSQGFQDKTRAGKMMQATGKALCFSSQQRALALRNPLCRFHQEV
 ETRFRHRAISDTWLTVNRMEQCRTEYRGALLWMKDVSQELDPDL YKQMEKFRKVQTVRLAKKNFDKLMKD
 VCQKVDLLGASRCNLLSHMLATYQTLLHFWEKTSHTMAAIHESFKGYQPYEFTTLKSLQDPMKKLVEKE
 EKKKINQQESTDAAVQEPSQLISLEENQRKESSFKTEDGKSILSALDKGSTHTACSGPIDELDMKSE
 EGACLGPVAGTPEPEGADKDDLLLLSEIFNASSLEEGEFKEWAAVFGDGQVKEPVTMALGEPDPKAQT
 GSGFLPSQLLDQNMKDLQASLQEPAKAASDLTAWFSLFADLDPLSNPDAVGKTDKEHELLNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

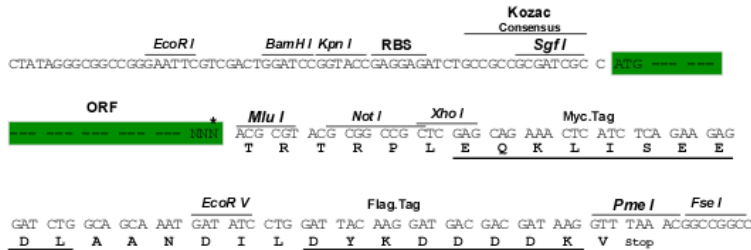
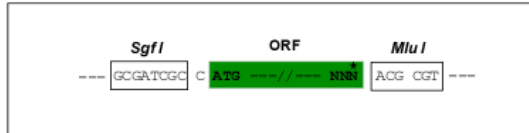
https://cdn.origene.com/chromatograms/mg2755_c10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001136020

ORF Size: 1446 bp

OTI Disclaimer: 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001136020.3](#)
RefSeq ORF: 1452 bp

Locus ID: 3382

UniProt ID: [Q05084](#)

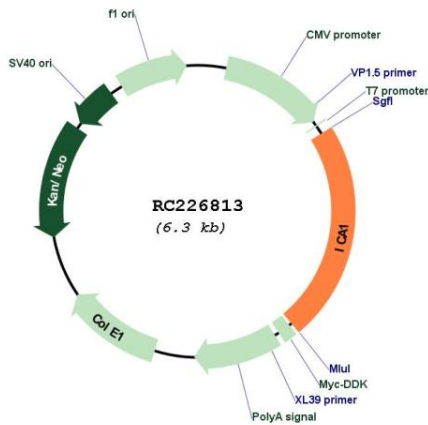
Cytogenetics: 7p21.3

Protein Pathways: Type I diabetes mellitus

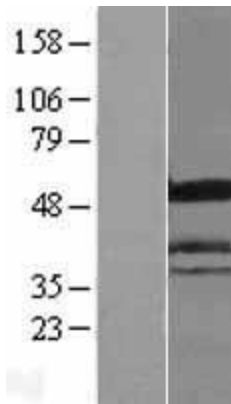
MW: 54.5 kDa

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]

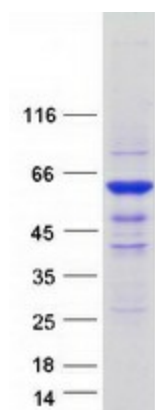
Product images:



Circular map for RC226813



Western blot validation of overexpression lysate (Cat# [LY427769]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226813 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ICA1 protein (Cat# [TP326813]). The protein was produced from HEK293T cells transfected with ICA1 cDNA clone (Cat# RC226813) using MegaTran 2.0 (Cat# [TT210002]).