

Product datasheet for **RG226813**

ICA1 (NM_001136020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICA1 (NM_001136020) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ICA1
Synonyms:	ICA69; ICAp69
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226813 representing NM_001136020
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGGACACAAATGTTATCCCTGGGACTTACAGGATCGATATGCTCAAGATAAGTCAGTTGTAATA
 AGATGCAACAGAAATATTGGGAGACGAAGCAGGCCTTTATTAAAGCCACAGGGAAGAAGGAGATGAACA
 TGTTGTTGCCTCTGACGCGGACCTGGATGCCAAGCTAGAGCTGTTTCATTCAATTCAGAGAACTGTCTG
 GACTTATCGAAAGCAATTGACTCTATCAAAGAGGATATGTTTCTTGTCTCAAGAAGAAAAAGAACTGG
 GAAAATTTCTTCGATCCCAAGGTTTCCAAGATAAAACCAGAGCAGGAAAGATGATGCAAGCGACAGGAAA
 GGCCCTCTGCTTTTCTCCAGCAAAGGTTGGCCTTACGAAATCCTTTGTGTGATTTACCAAGAAGTG
 GAGACTTTTCGGCATCGGCCATCTCAGATACTGGCTGACGGTGAACCGCATGGAACAGTGCAGGACGG
 AATATAGAGGAGCACTATTATGGATGAAGGACGTGTCTCAGGAGCTTGATCCAGACCTCTACAAGCAAT
 GGAGAAGTTCAGGAAGGTACAAACACAAGTGCCTTGCAAAAAAAACCTTTGACAAATTGAAGATGGAT
 GTTTGTCAAAAAGTGGATCTTCTGGAGCGAGCAGATGCAATCTCTTGTCTCACATGCTAGCAACATACC
 AGACCACTCTGCTTCATTTTTGGGAGAAAACCTTCTCACACTATGGCAGCCATCCATGAGAGTTTCAAAGG
 TTATCAACCATATGAATTTACTACTTTAAAGAGCTTACAAGACCCATGAAAAAATTAGTTGAGAAAAGAA
 GAGAAGAAGAAAATCAACCAGCAGGAAAGTACAGATGCAGCCGTGCAGGAGCCGAGCCAATTAATTTTCAT
 TAGAGGAAGAAAACAGCGCAAGGAATCCTCTAGTTTTAAGACTGAAGATGGAAGAAAGTATTTTTATCTGC
 CTTAGACAAAAGGCTCTACACATACTGCATGCTCAGGACCCATAGATGAACTATTAGACATGAAATCTGAG
 GAAGGTGCTTGCCTGGGACCAGTGGCAGGACCCCGAACCTGAAGGTGCTGACAAGATGACCTGCTGTC
 GTTTGAGTGAGATCTTCAATGCTTCTCCTTGGAAAGGGCGAGTTCAGCAAAGATGGGCCGCTGTGTC
 TGGAGACGGCCAAGTGAAGGAGCCAGTGCCTACTATGGCCCTGGGAGAGCCAGACCCCAAGGCCAGACA
 GGCTCAGGTTTCTTCTTCGCAGCTTTTAGACAAAATATGAAAGACTTACAGGCTCGCTACAAGAAC
 CTGCTAAGGCTGCCTCAGACCTGACTGCCTGGTTCAGCCTCTTCGCTGACCTCGACCCACTCTCAAATCC
 TGATGCTGTTGGGAAAACCGATAAAGAACCGAATTGCTCAATGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226813 representing NM_001136020
 Red=Cloning site Green=Tags(s)

MSGHKCYPWDLQDRYAQDKSVVNKMQQKYWETKQAFIKATGKKEDEHVVASDADLDAKLELFHSIQRTCL
 DLSKAIIVLYQKRICFLSQEENELGKFLRSQGFQDKTRAGKMMQATGKALCFSSQQLALRNPLCRFHQEV
 ETRHRAISDTWLTVNRMEQCRTEYRGALLWMKDVSQELDPDL YKQMEKFRKVQTVRLAKKNFDKLMKD
 VCQKVDLLGASRCNLLSHMLATYQTTLLHFWEKTSHTMAAIHESFKGYQPYEFTTLKSLQDPMKKLVEKE
 EKKKINQESTDAAVQEPSQLISLEENQRKESSEFKTEDGKSILSALDKGSTHTACSGPIDELLDKSE
 EGACLGPVAGTPEPEGADKDDLLLLSEIFNASSLEEGEFKEWAAVFDGQVKEPVPTMALGEPDPAQT
 GSGFLPSQLLDQNMKDLQASLQEPAKAASDLTAWFLFADLDPLSNPDAVGKTDKEHELLNA

TRTRPLE - GFP Tag - V

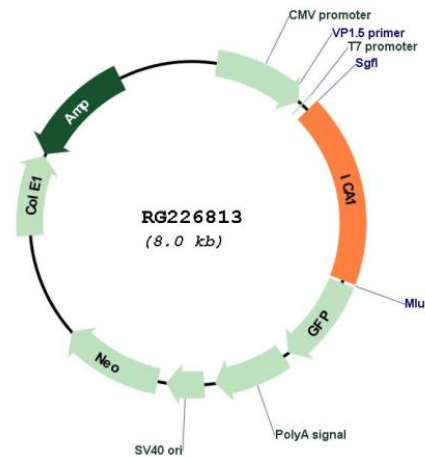
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001136020

ORF Size: 1449 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:	<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_001136020.1 , NP_001129492.1
RefSeq Size:	1737 bp
RefSeq ORF:	1452 bp
Locus ID:	3382
UniProt ID:	Q05084
Cytogenetics:	7p21.3
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]