

Product datasheet for **RG213136**

ICA1 (NM_022307) Human Tagged ORF Clone

Product data:

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

>RG213136 representing NM_022307
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAGGACACAAATGCAGTTATCCCTGGGACTTACAGGATCGATATGCTCAAGATAAGTCAGTTGTAA
 ATAAGATGCAACAGAAATATTGGGAGACGAAGCAGGCCTTTATTAAGCCACAGGGAAGAAGGAAGATGA
 ACATGTTGTTGCCTCTGACCGGACCTGGATGCCAAGCTAGAGCTGTTTCATTCAATTCAGAGAACCTGT
 CTGGACTTATCGAAAGCAATTGTACTCTATCAAAAGAGGATATGTTTCTGTCTCAAGAAGAAAACGAAC
 TGGGAAAATTTCTTCGATCCCAAGGTTTCCAAGATAAAACCAGAGCAGGAAAGATGATGCAAGCGACAGG
 AAAGGCCCTCTGCTTTTCTCCAGCAAAGGTTGGCCTTACGAAATCCTTTGTGTCGATTCACCAAGAA
 GTGGAGACTTTTCGGCATCGGGCATCTCAGATACTTGGCTGACGGTGAACCGCATGGAACAGTGCAGGA
 CGGAATATAGAGGAGCACTATTATGGATGAAGGACGTGTCTCAGGAGCTTGATCCAGACCTCTACAAGCA
 AATGGAGAAGTTCAGGAAGGTACAAACACAAGTGCCTTGCAAAAAAAAACTTTGACAAATTGAAGATG
 GATGTTTGTCAAAAAGTGGATCTTCTTGGAGCGAGCAGATGCAATCTCTTGTCTCACATGCTAGCAACAT
 ACCAGACCACTCTGCTTCATTTTTGGGAGAAACTTCTCACACTATGGCAGCCATCCATGAGAGTTTCAA
 AGGTTATCAACCATATGAATTTACTACTTTAAAGAGCTTACAAGACCCTATGAAAAATAGTTGAGAAA
 GAAGAGAAGAAGAAAATCAACCAGCAGGAAAGTACAGATGCAGCCGTGCAGGAGCCGAGCCAATTAATTT
 CATTAGAGGAAGAAAACAGCGCAAGGAATCCTCTAGTTTTAAGACTGAAGATGGAAAAGTATTTTATC
 TGCCTTAGACAAAGGCTCTACACATACTGCATGCTCAGGACCCATAGATGAACTATTAGACATGAAATCT
 GAGGAAGGTGCTTGCCTGGGACCACTGGCAGGGACCCCGGAACCTGAAGGTGCTGACAAAGATGGCCCTGT
 TGCTGTTGAGTGAGATCTCAATGCTTCTCCTTGGAGAGGGCGAGTTGACAAAGATGGCCCTGT
 GTTTGGAGACGGCCAAGTGAAGGAGCCAGTGCCTACTATGGCCCTGGGAGAGCCAGACCCCAAGGCCAG
 ACAGGCTCAGTTTTCTTCTTTCGAGCTTTTAGACAAAATATGAAAGACTTACAGGCCTCGCTACAAG
 AACCTGCTAAGGCTGCCTCAGACCTGACTGCCTGGTTCAGCCTCTTCGCTGACCTCGACCCACTCTCAAA
 TCCTGATGCTGTTGGAAAACCGATAAAGAACACGAATTGCTCAATGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213136 representing NM_022307
 Red=Cloning site Green=Tags(s)

MSGHKCSYPWDLQDRYAQDKSVVNKMQQKYWETKQAFIKATGKKEDEHVVASDADLDAKLELFHSIQRTC
 LDLSKAIVLYQKRICFLSQEENELGKFLRSQGFQDKTRAGKMMQATGKALCFSSQQLALRNPLCRFHQE
 VETFRHRAISDTWLTVNRMEQCRTEYRGALLWMKDVSQLDPDLYKQMEKFRKVQTVVRLAKKNFDKLM
 DVCQKVDLLGASRCNLLSHMLATYQTTLLHFWEKTSHTMAAIHESFKGYQPYEFTTLKSLQDPMKKLVEK
 EEKKKINQQESTDAAVQEPSQLISLEENQRKESSEFKTEDGKSILSALDKGSTHTACSGPIDELLDKMS
 EEGACLGPVAGTPEPEGADKDDLLLLSEIFNASSLEEGEFKEWAAVFGDGQVKEPVPTMALGEPDKAQT
 TGSGLFSQLLDQNMKDLQASLQEPAKAASDLTAWFSLFADLDPLSNPDAVGKTDKEHELLNA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_022307

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:

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_022307.3](#)

RefSeq Size: 2139 bp

RefSeq ORF: 1452 bp

Locus ID: 3382

UniProt ID: [Q05084](#)

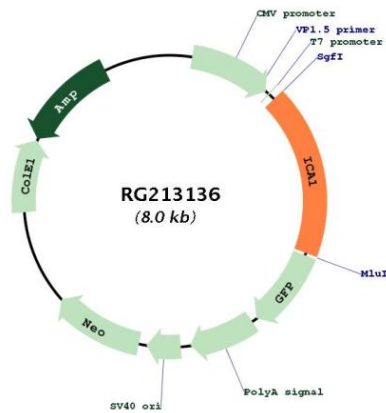
Cytogenetics: 7p21.3

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]

Product images:



Circular map for RG213136