

Product datasheet for **RG202149**

ICA1 (NM_004968) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICA1 (NM_004968) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG202149 representing NM_004968
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGGACACAAATGTTATCCCTGGGACTTACAGGATCGATATGCTCAAGATAAGTCAGTTGTAATA
 AGATGCAACAGAAATATTGGGAGACGAAGCAGGCCTTTATTAAAGCCACAGGGAAGAAGGAGATGAACA
 TGTTGTTGCCTCTGACGCGGACCTGGATGCCAAGCTAGAGCTGTTTCATTCAATTCAGAGAACTGTCTG
 GACTTATCGAAAGCAATTGACTCTATCAAAGAGGATATGTTTCTTGTCTCAAGAAGAAAAACGAACTGG
 GAAAAATTTCTTCGATCCCAAGGTTTCCAAGATAAAACCAGAGCAGGAAAGATGATGCAAGCGACAGGAAA
 GGCCCTCTGCTTTTCTCCAGCAAAGGTTGGCCTTACGAAATCCTTTGTGTGATTTACCAAGAAGTG
 GAGACTTTTCGGCATCGGCCATCTCAGATACTGGCTGACGGTGAACCGCATGGAACAGTGCAGGACGG
 AATATAGAGGAGCACTATTATGGATGAAGGACGTGTCTCAGGAGCTTGATCCAGACCTCTACAAGCAAT
 GGAGAAGTTCAGGAAGGTACAAACACAAGTGCCTTGCAAAAAAAACCTTTGACAAATTGAAGATGGAT
 GTTTGTCAAAAAGTGGATCTTCTGGAGCGAGCAGATGCAATCTCTTGTCTCACATGCTAGCAACATACC
 AGACCACTCTGCTTCATTTTGGGAGAAAACTTCTCACACTATGGCAGCCATCCATGAGAGTTTCAAAGG
 TTATCAACCATATGAATTTACTACTTTAAAGAGCTTACAAGACCCATGAAAAAATTAGTTGAGAAAAGAA
 GAGAAGAAGAAAAACAACCAGCAGGAAAGTACAGATGCAGCCGTGCAGGAGCCGAGCCAATTAATTTTCAT
 TAGAGGAAGAAAAACCAGCGCAAGGAATCCTCTAGTTTTAAGACTGAAGATGGAAGAAAGTATTTTATCTGC
 CTTAGACAAAGGCTCTACACATACTGCATGCTCAGGACCCATAGATGAACTATTAGACATGAAATCTGAG
 GAAGGTGCTTGCCTGGGACCAGTGGCAGGACCCCGAACCTGAAGGTGCTGACAAGATGACCTGCTGCT
 GTTTGAGTGAGATCTTCAATGCTTCTCCTTGGAAAGGGCGAGTTCAGCAAAGATGGGCCGCTGTGTT
 TGGAGACGGCCAAGTGAAGGAGCCAGTGCCTACTATGGCCCTGGGAGAGCCAGACCCCAAGGCCAGACA
 GGCTCAGGTTTCTTCTTCGCAGCTTTTAGACAAAAATATGAAAGACTTACAGGCTCGCTACAAGAAC
 CTGCTAAGGCTGCCTCAGACCTGACTGCCTGGTTCAGCCTCTTCGCTGACCTCGACCCACTCTCAAATCC
 TGATGCTGTTGGGAAAACCGATAAAGAACCGAATTGCTCAATGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202149 representing NM_004968
 Red=Cloning site Green=Tags(s)

MSGHKCYPWDLQDRYAQDKSVVNKMQQKYWETKQAFIKATGKKEDEHVVASDADLDAKLELFHSIQRTCL
 DLSKAIIVLYQKRICFLSQEENELGKFLRSQGFQDKTRAGKMMQATGKALCFSSQQLALRNPLCRFHQEV
 ETRHRAISDTWLTVNRMEQCRTEYRGALLWMKDVSQLDPDL YKQMEKFRKVQTVRLAKKNFDKLMKD
 VCQKVDLLGASRCNLLSHMLATYQTTLLHFWEKTSHTMAAIHESFKGYQPYEFTTLKSLQDPMKKLVEKE
 EKKKINQESTDAAVQEPSQLISLEEENQRKESSEFKTEDGKSILSALDKGSTHTACSGPIDELLDMKSE
 EGACLGPVAGTPEPEGADKDDLLLLSEIFNASSLEEGEFSKEWAAVFGDQVKEPVPTMALGEPDPAQT
 GSGFLPSQLLDQNMKDLQASLQEPAKAASDLTAWFSLFADLDPLSNPDAVGKTDKEHELLNA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004968

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.

RefSeq: [NM_004968.2](#), [NP_004959.2](#)

RefSeq Size: 2396 bp

RefSeq ORF: 1452 bp

Locus ID: 3382

UniProt ID: [Q05084](#)

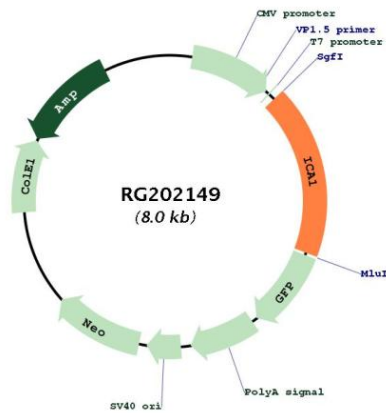
Cytogenetics: 7p21.3

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 RG202149