

Product datasheet for **MG207669**

Ica1 (NM_010492) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ica1 (NM_010492) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ica1
Synonyms:	69kDa; ICA69
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207669 representing NM_010492
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGGACACAAATGTTATTCCTGGGAGTTGCAGGACCGGTTTGTCTCAAGATAAGTCAGTTGTCAATA
 AGATGCAGCAGAAATATTGGGAGACCAAGCAGGCCTTTATCAAAGCCACGGGGAAGAAGGAAGATGAACA
 TGTGGTTGCTTCTGATGCAGACCTGGATGCCAAGCTGGAGCTGTTTCACTCAATCCAGAGAACTGTCTG
 GACTTGTCTAAAGCAATCGTGCTCTATCAAAGAGAATATGTTTCTTGTCTCAAGAGGAAAAATGAACTGG
 GAAAGTTTCTCGATCTCAAGGCTTCCAAGACAAAACCCGAGCAGGAAAAATGATGCAAGCCACGGGCAA
 GGCCCTCTGCTTTTCTCCAGCAAAGTTGGCCTTGAGAAACCCCTTTGTGTGATTTACCAAGAAGTA
 GAAACTTTTAGACATCGGGCCATCTCTGATACCTGGCTGACAGTGAACCGCATGGAGCAGTACAGGACAG
 AATACAGAGGAGCGTTGTTATGGATGAAGGACGTGTCTCAGGAATTGATCCAGACCTCTACAAGCAAT
 GGAGAAGTTCAGGAAGGTGCAGACACAAGTCCGCCTTGCAGAAAAAACTTTGACAAGTTGAAGATGGAT
 GTGTGTCAAAGGTGGATCTTCTGGAGCAAGCAGATGTAACCTCTTATCTCACATGCTAGCAACATAACC
 AGACCACTCTGCTCCACTTTTGGGAGAAAACTTCTCACACCATGGCAGCCATTATGAGAGCTTCAAAGG
 TTATCAACCATATGAATTCACAACGTTAAAGAGCTTACAAGACCCATGAAGAAGCTAGTTGAGAAAAGAA
 GGAAGAAGACCTCTGGAGGAAAAACCGGAGGCTGTGGCACCAGAGCCGAGGCAGTTAATTTCTTTGG
 AGGATGAGCACAAAGATTCATCTACTTATAAGACTGAAGAGGGAACAAGCGTTTTGTCTTCCGTAGACAA
 AGGTTCTGTACATGACACATGCTCAGGACCCATAGATGAACTATTAGACGGGAAACCCGAGGAAGCATGC
 CTGGGTCACCGCAGGGACCCAGAACCTGAAAGTGGGGACAAGGATGACCTCTTGTCTTGAATGAGA
 TCTTCAGCACTTCTGCCTGGATGAGGGGAGTTCAGCAGAGAGTGGGCTGCAGTGTGGAGATGACCC
 GCTGAAGGAGCCAGCACCCATGGGAGCCAGGGAGAGCCAGACCCCAAGCCAGATAGGCTCCGGATTC
 CTTCCATCACAGCTTTTAGACAAAATATGAAAGATCTCCAGGCCTCTCTGCAAGAGCCTGCCAAGGCTG
 CCTCGGACCTGACTGCCTGGTTCAGCCTCTTGTGACCTCGACCCCTTATCAAACCCTGATGCTGTTGG
 GAAAACTGATAAAGAACCGAATTGCTCAATGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207669 representing NM_010492
 Red=Cloning site Green=Tags(s)

MSGHKCYSWELQDRFAQDKSVVNKMQQKYWETKQAFIKATGKKEDEHVVASDADLDAKLELFHSIQRTCL
 DLSKAIVLYQKRICFLSQEENELGKFLRSQGFQDKTRAGKMMQATGKALCFSSQQLALRNPLCRFHQEV
 ETRHRAISDTWLTVNRMEQYRTEYRGALLWMKDVSQELDPDL YKQMEKFRKVQTVRLAKKNFDKLMKD
 VCQKVDLLGASRCNLLSHMLATYQTTLLHFWEKTSHTMAAIHESFKGYQPYEFTTLKSLQDPMKLLVEKE
 GKKT SWRENREAVAPEPRQLISLEDEHKDSSTYKTEEGTVLSSVDKGSVHDTCSGPIDELLDGKPEEAC
 LGPTAGTPEPESGDKDLLLLNEIFSTSCLEGEF SREWAAVFGDDRLEKPEPMPGAQGEPPKPKQIGSGF
 LPSQLLDQNMKDLQASLQEPAKAASDLTAWFSLFADLDPLSNPDAVGTDKHELLNA

TRTRPLE – GFP Tag – V

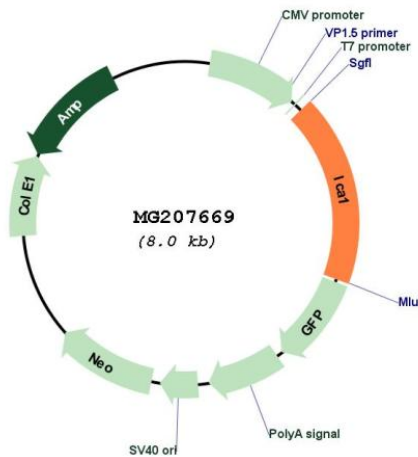
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010492

ORF Size: 1434 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_010492.2](#), [NP_034622.2](#)

RefSeq Size: 1723 bp

RefSeq ORF: 1437 bp

Locus ID: 15893

UniProt ID: [P97411](#)

Cytogenetics: 6 4.38 cM

Gene Summary: May play a role in neurotransmitter secretion.[UniProtKB/Swiss-Prot Function]