

Product datasheet for **MR230004**

Ica1 (NM_001252266) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ica1 (NM_001252266) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ica1
Synonyms:	69kDa; ICA69
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230004 representing NM_001252266
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAGGACACAAATGTTATTCCTGGGAGTTGCAGGACCGTTTCTCAAGATAAGTCAGTTGTCAATA
 AGATGCAGCAGAAATATTGGGAGACCAAGCAGGCTTTATCAAAGCCACGGGGAAGAAGGAAGTGAACA
 TGTGGTTGCTTCTGATGCAGACCTGGATGCCAAGCTGGAGCTGTTTCACTCAATCCAGAGAACTGCCTG
 GACTTGTCTAAAGCAATCGTGCTCTATCAAAGAGAATATGTTTCTTGTCTCAAGAGGAAAATGAACTGG
 GAAAGTTTCTCGATCTCAAGGCTTCCAAGACAAAACCCGAGCAGGAAAAATGATGCAAGCCACGGGCAA
 GGCCCTCTGCTTTTCTCCAGCAAAGTTGGCCTTGAGAAACCTTTGTGTGATTTACCAAGAAGTA
 GAAACTTTAGACATCGGGCCATCTCTGATACCTGGCTGACAGTGAACCGCATGGAGCAGTACAGGACAG
 AATACAGAGGAGCGTTGTTGTGGATGAAGGATGTGTCTCAGGAATTGATCCAGACCTCTACAAGCAAT
 GGAGAAGTTCAGGAAGGTGCAGACACAAGTCCGCTTGCAGAAAAAACTTTGACAAGTTGAAGATGGAT
 GTGTGTCAAAGGTGGATCTTCTGGAGCAAGCAGATGTAACCTCTTATCTCACATGCTAGCAACATACC
 AGACCACTCTGCTCCACTTTTGGGAGAAAACCTTCTCACACCATGGCAGCCATTATGAGAGCTTCAAAGG
 TTATCAACCATATGAATTCACAACGTTAAAGAGCTTACAAGACCCATGAAGAAGCTAGTTGAGAAAAGAA
 GGAAGAAGACCTCTGGAGGAAAACCGGAGGCTGTGGCACCAGAGCCGAGGCAGTTAATTTCTTTGG
 AGGATGAGCACAAGATTATCTGCTTATAAGAGACCCATAGATGAACTATTAGACGGGAAAACCCGAGGA
 AGCGTGCCTGGTCCCACGGCAGGGACCCAGAACCTGAAAGTGGGACAAGGATGACCTCTTGTGTTG
 AATGAGATCTTCAGCACTTCTGCCTGGATGAGGAGAGTTGAGCAGAGAGTGGGCTGCAGTGTGTTGGAG
 ATGACCAGCTAAAGGAGCCAGCACCCATGGGGGCCCAAGGAGAGCCAGACCCCAAGCCCCAGATAGGCTC
 CGGATTCCTCCGTCACAGCTTTTAGACCAAATATGAAAGATCTCCAGGCCTCTCTGCAAGAGCCTGCC
 AAGGCTGCCTCGGACCTGACTGCCTGGTTGAGCCTCTTTGCTGACCTCGACCCCTTATCAAACCTGATG
 CTGTTGGGAAAACGATAAAGAACGAATTGCTCAATGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230004 representing NM_001252266
 Red=Cloning site Green=Tags(s)

MSGHKCYSWELQDRFAQDKSVVNKMQQKYWETKQAFIKATGKKEDEHVVASDADLDAKLELFHSIQRTCL
 DLSKAIIVLYQKRICFLSQEENELGKFLRSQGFQDKTRAGKMMQATGKALCFSSQQLALRNPLCRFHQEV
 ETRHRAISDTWLTVNRMEQYRTEYRGALLWMDVVSQELDPDLKQMEKFRKVQTVRLAKKNFDLKMMD
 VCQKVDLLGASRCNLLSHMLATYQTTLLHFWEKTSHTMAAIHESFKGYQPYEFTTLKSLQDPMKLVKEE
 GKKTSWRENREAVAPEPRQLISLEDEHKDSSAYKRPIDELLDGKPEEACLGPTAGTPEPESEGDKDDLLLL
 NEIFSTSCLEGEFSREWAAVFGDDQLKEPAPMGAQGEPPKPKQIGSGFLPSQLLDQNMKDLQASLQEP
 KAASDLTAWFLFADLDPLSNPDAVGKTDKEHELLNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

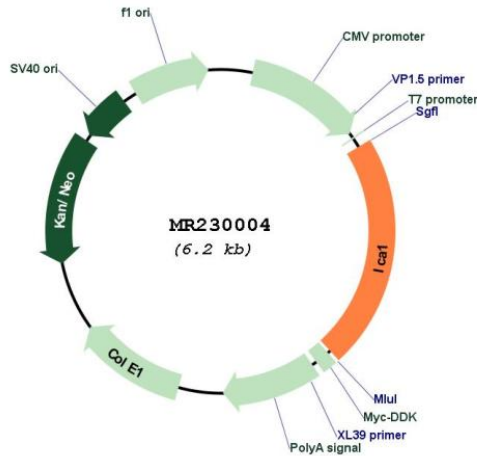
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252266

ORF Size: 1371 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_001252266.1](#), [NP_001239195.1](#)

RefSeq Size: 1614 bp

RefSeq ORF: 1374 bp

Locus ID: 15893

UniProt ID: [P97411](#)

Cytogenetics: 6 4.38 cM

MW: 52.8 kDa

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