

Product datasheet for **MR215892**

Isca2 (NM_028863) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Isca2 (NM_028863) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Isca2
Synonyms: 0710001C05Rik; 5730594E03Rik; Hbld1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR215892 representing NM_028863
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGCCTCCAGGGCCTTGTCCTAACTGCCGAGGCGGTGAGGGCTGTCATTCTAGGCGCTCGGAA
GGCTCCTCGCCGCTTTCCAGGCTTTGACCCGCTGGGAAACAACATCTCCATTCCAGAGGCTGGCGA
GGGACAGATCCGCTCACAGACAGCTGCGTCCAGAGGCTTCTGGAAATCACCGAAGGGTCAAGTTCCTC
AGGCTGCAAGTAGAGGGAGGTGGATGCTCCGGATTCCAATACAAATTTTCACTGGATACAGTTATTAACC
CCGACGACAGGGTATTTGAACAGGGTGGGGCAAGAGTGGTGGTTGACTCTGATAGCTTGGCTTCGTTAA
GGGAGCCCAGGTGGACTTCAGCCAAGAAGTCCGAAGCTCATTCCAAGTGTGAATAACCCTCAAGCC
CAGCAAGGCTGCTCCTGTGGTCACTCTCTGTCAAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215892 representing NM_028863
Red=Cloning site Green=Tags(s)
MAASRALSLTAEAVRAVIPRRSGRLLAVFPRLTRWETTSSIPEAGEGQIRLTDSCVQRLLIETEGSEFL
RLQVEGGCSGFQYKFLDVTVINPDDRVEQGGARVVVDSLSLAFVKGAQVDFSQELIRSSFQVLNPNQA
QQGCSCGSSFSVKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

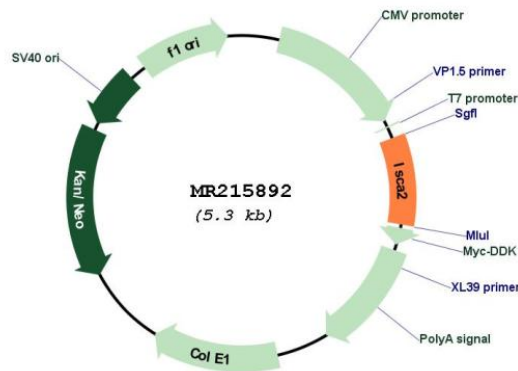
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_028863

ORF Size: 462 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:	<u>NM_028863.1</u> , <u>NP_083139.1</u>
RefSeq Size:	868 bp
RefSeq ORF:	465 bp
Locus ID:	74316
UniProt ID:	<u>Q9DCB8</u>
Cytogenetics:	12 D1
MW:	17.2 kDa
Gene Summary:	Involved in the maturation of mitochondrial 4Fe-4S proteins functioning late in the iron-sulfur cluster assembly pathway. May be involved in the binding of an intermediate of Fe/S cluster assembly.[UniProtKB/Swiss-Prot Function]