

Product datasheet for MR200712

Isca1 (BC018547) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Isca1 (BC018547) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Isca1
Synonyms: 1810010A06Rik; Hbld2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200712 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCGGCGTCGTTGGTCCGCGCCACCGTGC GGCTGTGAGCAAGAGAAAAGTGCAGCCACGCGGGCGG
CCCTCACACTGACCCCTCTGCTGTAACAAGATAAAACAACCTCTTAAGACAAACCTGAGCATGTGGG
TCTGAAAGTTGGCGTGCGAACCAGGGGCTGTAATGGCCTCTTTACAGCCTGGAGTACACAAAGACAAA
GGAGATTCTGATGAAGAAGTTATTCAAGATGGAGTCCGAGTGTCATCGAGAAGAAAGCACAGCTAACCC
TGTTAGGAACAGAGATGGACTATGTGGAAGACAACTGTCCAGTGAGTTTGTGTTCAATAACCCCAACAT
CAAGGGAACCTGTGGCTGCGGTGAGAGCTTTCACGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200712 protein sequence
Red=Cloning site Green=Tags(s)
MSASLVRATVRAVSKRKLQPTRALTLTPSAVNKIKQLLKDKPEHVGLKVGVRTRGCNGLSYSLEYTKTK
GDSDEEVIQDGVRFIEKKAQLTLGTEM DYVEDKLSSEFVFNNPNIKGTGCGESFHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: BC018547

ORF Size: 387 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: [BC018547](#), [AAH18547](#)

RefSeq Size: 1901 bp

RefSeq ORF: 389 bp

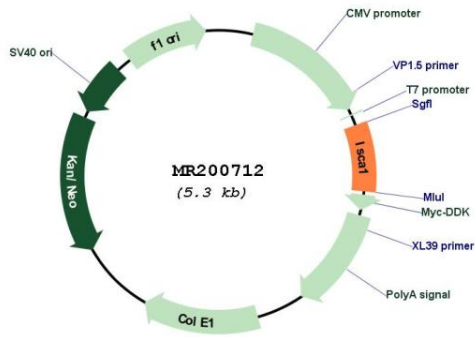
Locus ID: 69046

Cytogenetics: 13 B2

MW: 14.2 kDa

Gene Summary: Involved in the maturation of mitochondrial 4Fe-4S proteins functioning late in the iron-sulfur cluster assembly pathway. Probably involved in the binding of an intermediate of Fe/S cluster assembly.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200712