

## Product datasheet for **MG200712**

### Isca1 (BC018547) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Isca1 (BC018547) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Isca1  
**Synonyms:** 1810010A06Rik; Hbld2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200712 representing BC018547  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGCGTCGTTGGTCCGCGCCACCGTGC GGCTGTGAGCAAGAGAAAAGTGCAGCCCACGGGGCGG  
CCCTCACACTGACCCCTCTGCTGTAACAAGATAAAACAACCTCTTAAGACAAACCTGAGCATGTGGG  
TCTGAAAGTTGGCGTGC GAACCAGGGGCTGTAATGGCCTCTTTACAGCCTGGAGTACACAAAGACAAA  
GGAGATTCTGATGAAGAAGTTATTCAAGATGGAGTCCGAGTGTCATCGAGAAGAAAGCACAGCTAACCC  
TGTTAGGAACAGAGATGGACTATGTGGAAGACAACTGTCCAGTGAGTTTGTGTTCAATAACCCCAACAT  
CAAGGGAACCTGTGGCTGCGGTGAGAGCTTTCAGGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200712 representing BC018547  
Red=Cloning site Green=Tags(s)

MSASLVRA TVRAVSKRKLQPTRAA LTPSAVNKIKQLLKDKPEHVGLKVGVRTRGCNGLSYSLEYTKTK  
GDSDEEVIQDGV RVFIEKKAQLTLLGTENDYVEDKLSSEFVFNNPNIKGTCGCGESFHV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

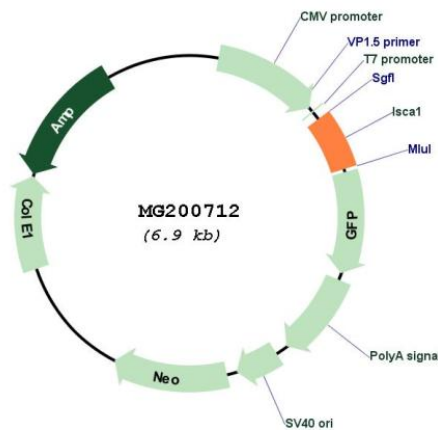


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Cloning Scheme:



Plasmid Map:



ACCN: BC018547

ORF Size: 389 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC018547</a> , <a href="#">AAH18547</a>
<b>RefSeq Size:</b>	1901 bp
<b>RefSeq ORF:</b>	389 bp
<b>Locus ID:</b>	69046
<b>Cytogenetics:</b>	13 B2
<b>Gene Summary:</b>	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]