

## Product datasheet for **RR203553**

### Isca1 (NM\_181626) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Isca1 (NM\_181626) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Isca1  
**Synonyms:** Hbld2; hIsca  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RR203553 representing NM\_181626  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGCGTCGTTGGTCCGCGCCACCGTGCGGGCCGTGAGCAAGAGAAAAGTCAACCCACGCGGGCGG  
CGCTCACGCTGACCCCTCTGCTGTGAACAAGATAAAACAACCTCTTAAGACAAGCCTGAGCATGTGGG  
TCTGAAAGTGGGTGTGCGGACCAGGGGCTGTACGGCCTCTTTACAGCCTGGAGTATACAAAGACAAA  
GGAGATGCTGATGAAGAAGTTATTCAAGACGGAGTCCGAGTGTCATCGAGAAGAAAGCCAGCTAACCC  
TGTTAGGCACAGAGATGGACTATGTGGAAGACAACTGTCCAGTGAGTTTGTGTTCAACAACCCCAACAT  
CAAGGGAACCTGTGGCTGCGGTGAAAGCTTTAACGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR203553 representing NM\_181626  
Red=Cloning site Green=Tags(s)

MSASLVRATVRAVSKRKLQPTRAALTLTPSAVNKIKQLLKDKPEHVGLKVGVRTRGCNGLSYSLEYTKTK  
GDAADEEVIQDGVRFIEKKAQLTLLGTEMDYVEDKLSSEFVFNNPNIKGTGCGGESFN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_181626

**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:** [NM\\_181626.3](#), [NP\\_853657.1](#)

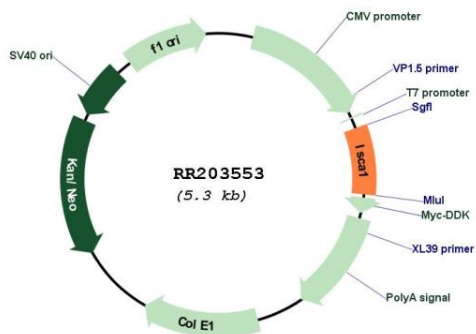
**RefSeq Size:** 1875 bp

**RefSeq ORF:** 390 bp

**Locus ID:** 290985

UniProt ID: [Q80W96](#)  
 Cytogenetics: 17p14  
 MW: 14.1 kDa  
 Gene Summary: probably a mitochondrial protein involved in the biogenesis of iron-sulfur clusters [RGD, Feb 2006]

**Product images:**



Circular map for RR203553