

Product datasheet for MR205473

Iba57 (NM_173785) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Iba57 (NM_173785) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Iba57
Synonyms:	4930543L23Rik; A230051G13Rik; C1orf69
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205473 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCGGTGGCGCTGCTTCGGGGCGCGGCTGTGGGGCGCAGAAGCCAGCTTGGCACTGGCGGCTGA
GCGGGACCGGAGTCACTGCCTAGCCCGTGGCTTTGGCCTTCTTGGCAGCAACCCCGGGACGGTGTGGC
CTGGACTTGCTTCGGCTGGACGGGCGGCCTTAGTGCGCGTGCAGCGCCCGGACGCTGCACCCTCCTG
TTGGGACTATCGACCAATGAGCTGCCGCTTCGGGGCCTCCGACCGCGCGGCTCAGCCCTCGCGCGT
CGGCGTATGCCCATTTCTGAATGTGCAGGGACGCACGCTCTATGACGTCATTCTGTATGGACTCCCAGA
GTGTACGGAGGGGCACCAAGCTTCTCCTGGAGTGTGACAGCTCCGTGCTGGGCCCCCTACAGAAGCAC
CTCTCCATGTACAAGATCCGGCGGAAGGTACCGTGGAGCCAAGTCCGGAGCTCCACGTGTGGGCTGTGC
TACCCTGTGTCCCCAAACCTCTGAGACTGCACCTCTAGAAGAGAGGGTGAAGGCCACCACCATGTTAT
CCGTGACCCCGGACTGCACGTATGGGGTGGCGGCTTCTCACCCAGGATGATGGCCAGCCCTGGTGCC
AGGGGACAGCTTGGGGATCTCCAAGATTACACAAGTACCGGTACCAACAAGGCATCCCCAGGGAGTCT
GTGATCTCCCCAGGGATGGCCCTCCCCTGGAGTCCAACCTGGTCTTCATGAACGGCGTGAGCTTCAC
GAAGGGCTGTACATTGGGCAGGAGCTGACGGCCCGGACCCACCATACAGGTGTATCCGAAGCGCCTC
TTCCCAGTGAAGCTTGAAGGCCCCCTGCCTGCAAGTGGCGTCAGCCCTGGCGCCATAGTGACGGTGACT
CCACAGGCCAGGCAGCGGGCAAGTTCAGGGCTGGCCAGGGACACGTGGGACTGGCTTTGCTGCGGTGAGA
GACAATCAAGGGTCTCTCCACATCAAGACCTCCGAGAGCCAGTTGGTGGCTGTGACTGCCGTGGTGCC
GACTGGTGGCCACAGCTGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205473 protein sequence
 Red=Cloning site Green=Tags(s)

MAAVALLRGAAVGRRSPAHHWRLSGTASHCLARGFLLGSPADGVAWTCFRLDGRALVVRGPDAAAPFL
 LGLSTNELPLSGPPTGAAQPSARAAYAHFLNVQGRTRYDVIYGLPECTEGAPSFLLCEDSSVLGALQKH
 LSMYKIRRKVTVEPSELHVWAVLPCVPQTSETAPLEERVEGTTMLIRDPRTARMGWRLTQDDGPALVP
 RGQLGDLQDYHKYRYQQGIPEGVCDLPPGMALPLESNLVFMNGVSFTKGCYIGQELTARTHTGTGVIKRL
 FPKLEGPLPASGVSPGAIIVTATGQAAGKFRAGQGHVGLALLRSETIKGPLHIKTSSEQLVAVTAVVP
 DWWPTAAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_173785

ORF Size: 1077 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_173785.1](#), [NM_173785.2](#), [NM_173785.3](#), [NM_173785.4](#), [NM_173785.5](#), [NM_173785.6](#), [NP_776146.1](#)

RefSeq Size: 4027 bp

RefSeq ORF: 1077 bp

Locus ID: 216792

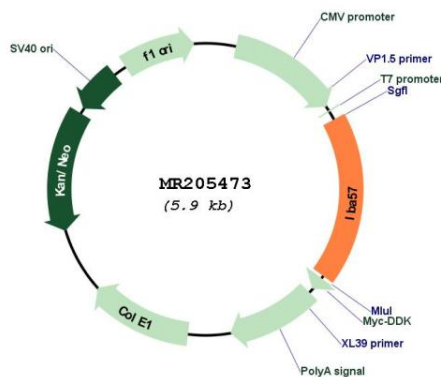
UniProt ID: [Q8CAK1](#)

Cytogenetics: 11 B1.3

MW: 38.4 kDa

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

Product images:



Circular map for MR205473