

## Product datasheet for MR204148

### Slc25a4 (NM\_007450) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a4 (NM_007450) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a4
Synonyms:	Ant1; AU019225
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204148 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGGGGATCAGGCTTTGAGCTTTCTTAAGGACTTCTGGCAGGTGGCATCGCCGCCCGCTCTCCAAGA  
CGGCGGTCGCCCCGATCGAGAGGGTCAAAGTCTGCTGCAGGTCCAGCATGCCAGCAAACAGATCAGTGC  
AGAGAAGCAGTACAAAGGCATCATTGATTGTGTCGTGAGAATCCCCAAGGAGCAGGGCTTTCTCTTTT  
TGGAGGGTAACCTGGCCAACGTGATCCGGTACTTCCCCACTCAAGCCCTGAACCTCGCCTTCAAAGACA  
AGTACAAGCAGATCTTCTGGGAGGCGTGGATCGCCATAAGCAGTCTGGCGCTACTTTGCTGGTAACCT  
GGCCTCTGGTGGGCGAGCTGGGGCCACCTCCCTCTGCTTCTGCTACCCGCTGGACTTTGCTAGGACCAGG  
CTGGCTGCCGACGTGGGCAAGGGATCTTCCAGCGAGAATTCAATGGGCTGGGCGACTGTCTCACCAAGA  
TCTTCAAGTCGGACGGCCTGAAGGGTCTTACCAGGGTTTCAGTGTCTCTGTCCAGGGCATCATCATCTA  
CAGAGTGCCTACTTCGGAGTCTATGACACTGCCAAGGGGATGCTGCCAGACCCCAAGAATGTGCACATT  
ATCGTGAGCTGGATGATTGCCAGAGTGTGACAGCGGTGGCGGGGCTGGTGTCTATCCGTTTGACTG  
TTCGTCGTAGGATGATGATGCAGTCTGGCCGAAAGGGGCTGATATTATGTACACGGGGACACTTGACTG  
CTGGAGGAAGATTGCAAAAGATGAAGGAGCCAACGCTTTCTTCAAAGGTGCTTGGTCCAATGACTGAGA  
GGCATGGTGGTCTTTTGTATTGGTATTGTATGATGAGATCAAAAAATATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204148 protein sequence  
 Red=Cloning site Green=Tags(s)

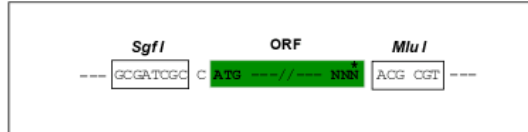
MGDQALSFLKDFLAGGIAAAVSKTAVAPIERVKLLLQVQHASKQISAEKQYKGIIDCVVRIPKEQGFLSF  
 WRGNLANVIRYFPTQALNFAFKDKYKQIFLGGVDRHKQFWRYFAGNLASGGAAGATSLCFVYPLDFARTR  
 LAADVKGKSSQREFNGLGDCLTKIFKSDGLKGLYQGF SVSVQGI IYRAAYFGVYDTAKGMLPDPKNVHI  
 IVSWMIAQSVTAVAGLVSYFPDTRRRMMMQSGRKGADIMYTGTLDCWRKIAKDEGANAFFKGAWSNVLR  
 GMGGAFVLLVLYDEIKKYV

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\_007450

**ORF Size:** 897 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\\_007450.5](#)

**RefSeq Size:** 1142 bp

**RefSeq ORF:** 897 bp

**Locus ID:** 11739

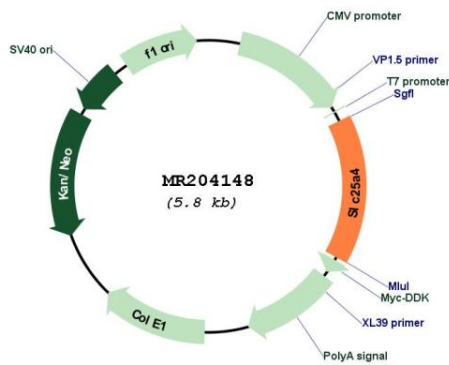
**UniProt ID:** [P48962](#)

**Cytogenetics:** 8 26.22 cM

**MW:** 32.9 kDa

**Gene Summary:** Involved in mitochondrial ADP/ATP transport. Catalyzes the exchange of cytoplasmic ADP with mitochondrial ATP across the mitochondrial inner membrane.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204148