

Product datasheet for MR204630

Slc25a31 (NM_178386) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a31 (NM_178386) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a31
Synonyms:	1700034J06Rik; Ant4; Sfec
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204630 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAACGAATCCTCCAAGAAGCAGTCTTCAAAGAAGGCGCTGTTTCGATCCGGTGTCTTTCTCGAAGG
ACCTGCTGGCCGGCGGGTTCGCGCCGCGGTGTCGAAGACAAGTGGCGCCATCGAGCGTGTGAAGCT
GCTGCTGCAGGTGCAGGCGTCTCAAGCAGATAAGCCCTGAGGCGCGCTACAAGGCATGCTGGACTGC
CTGGTGCATTCTCGTGAAGGATTTTTAAGTTATTGGCGTGGCAATTTGGCAAATGTTATTCGAT
ACTTTCCAACACAAGCCTTAACTTCGCTTTAAGGACAATAACAAAGAACTTTTCATGTCTGGTGTAA
TAAAGAAAACAGTTCTGGAGATGGTTTCTAGCAAACCTGGCTTCTGGAGGGGCTGCTGGAGCAACATCC
TTGTGTGTAGTATACCCACTAGATTTTGCAGAACCCGATTAGGTGTTGATATTGAAAAAGTCCCTGAGC
AGCGGCAGTTCACGGGTTTGGTGACTGCATTATGAAAATAGCCAAGTCAGATGGACTGATTGGTCTATA
CCAAGGGTTTGGTGTCTCTGTTCAAGGTATCATTGTTTACCGAGCCTTACTTTGGAGCTTATGACACC
GTTAAGGGCTTATTGCCAAAGCCAAAGGAAACCCATTTCTTGTCTTTTATCATTGCTCAAATCGTGA
CTACCTGTTCTGGAATACTCTCCTATCCCTTTGACACAGTTAGAAGACGTATGATGATGCAGAGTGGGA
ATCTGATCGGCAATATAAAGGAACCATAGACTGCTTTCTGAAAATCTACCGTCATGAAGGAGTTCCTGCC
TTCTTCCGTGGTCCCTTCCAACATCCTTCGTGGCACAGGGGTGCTTTGGTCTTGGTGTATATGATA
AAATCAAAGAGTTCCTCAACATTGATGTTGGAGGTAGTTCATCAGGAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR204630 protein sequence
 Red=Cloning site Green=Tags(s)

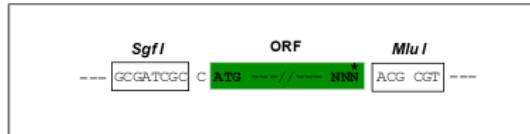
MSNESSKKQSSKKALFDPVFSKDLLAGGVAAAVSKTTVAPIERVKLLLQVQASSKQISPEARYKGLMDC
 LVRIPREQGFLSYWRGNLANVIRYFPTQALNFAFKDKYKELFMSGVNKEKQFWRWFLANLASGGAAGATS
 LCVVYPLDFARTRLGVDIGKGPEQRQFTGLGDCIMKIAKSDGLIGLYQGFVSVQGIIVYRASYFGAYDT
 VKGLLPKPKETPFLVSFIIAQIVTTCSGILSYPFDTVRRRRMMMQSGESDRQYKGTIDCFLKIYRHEGVPA
 FFRGAFSNILRGTGGALVLVLYDKIKEFLNIDVGGSSSGD

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_178386

ORF Size: 963 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_178386.2](#), [NP_848473.1](#)

RefSeq Size: 2110 bp

RefSeq ORF: 963 bp

Locus ID: 73333

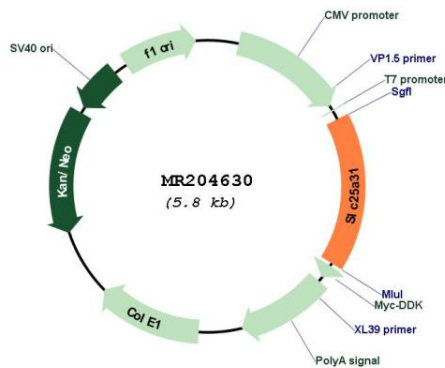
UniProt ID: [Q3V132](#)

Cytogenetics: 3 B

MW: 35.3 kDa

Gene Summary: Catalyzes the exchange of cytoplasmic ADP with mitochondrial ATP across the mitochondrial inner membrane. May serve to mediate energy generating and energy consuming processes in the distal flagellum, possibly as a nucleotide shuttle between flagellar glycolysis, protein phosphorylation and mechanisms of motility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204630