

Product datasheet for MR204420

Slc25a36 (NM_138756) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a36 (NM_138756) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a36
Synonyms:	C330005L02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204420 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCAGAGGGACACGCTGGTGCATCTGTTGCCGGGGATGTGGTGGCACAGTGGGAGCTATTCTGA
CATGTCCACTGGAAGTTGTCAAACACGGCTGCAGTCTTCTTCTGTGACACTGTATATTTCTGAAGTTCA
GCTGAACACCATGGCTGGAGCCAGTGTGAACCGAGTAGTGTCCCTGGACCTCTTCATTGTCTGAAGGCT
ATCCTGAAAAAGAGGGCCCTCGCTCGTTGTTTAGAGGATTGGGCCCAATTTGGTGGGGTTGCTCCCT
CCAGAGCAATATACTTTGCTGCTTATTCAAACTGCAAGGAAAAGTTGAATGGTGTTTTTGATCCTGATTC
TACCCAAGTGCACATGGCTTCAGCTGCAATGGCAGGTTTTACTGCAACTGCAACAAACCCCATTTGG
CTTATAAAGACTCGCTTACAGCTTGATGCAAGGACTCGTGGGAAAAGCAAATGGGTGCTTTTGAATGTG
TTCGTAAGTCTATCAGACAGACGGACTGCGAGGATTTATAGGGGCATGTCTGCCTCCTATGCCGGCAT
ATCAGAGACTGTTATCCATTTTGTATTTATGAAAGTATAAAGCAAAAACACTGGAATGTAAGACTGCT
TCTATGATGAAACTGATGAGGAGTCTGTGAAAGAAGCATCGGATTTTGTGAGAATGATGCTAGCTGCTG
CCACCTCAAAAACCTGTGCCACAACCATAGCGTATCCACACGAAGTTGTAAGAACAAGACTACGTGAAGA
AGGGACAAAATATAGTCTTTTTTCAAACATTGTCTTTGATTGTTCAAGAAGAAGGCTATGGATCTCTT
TACCGCGGTCTAACTCATCTGGTGAGGCAGATTCCAACACGGCCATTATGATGGCCACCTACGAAC
TGGTGGTCTACCTTCTCAACGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR204420 protein sequence
 Red=Cloning site Green=Tags(s)

MSQRDTLVHLFAGGCGGTVGAILTCPLEVVKTRLQSSSVTLYISEVQLNTMAGASVNRVVSPPGLHCLKA
 ILEKEGPRSLFRGLGNLVGVAPSRAIYFAAYSNCKEKLNQVDFDPDSTQVHMASAAMAGFTAITATNPIW
 LIKTRLQLDARTRGEKQMGAFECVRKVYQTDGLRGFYRGMASASYAGISETVIHFVIYESIKQLLECKTA
 SMMETDEESVKEASDFVRMMLAAATSKTCATTIAYPHEVVRTRLREEGTKYRSFFQTLSLIVQEEGYGSL
 YRGLTTHLVRQIPNTAIMMATYELVVYLLNG

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_138756

ORF Size: 936 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_138756.4](#), [NP_620095.1](#)

RefSeq Size: 3061 bp

RefSeq ORF: 936 bp

Locus ID: 192287

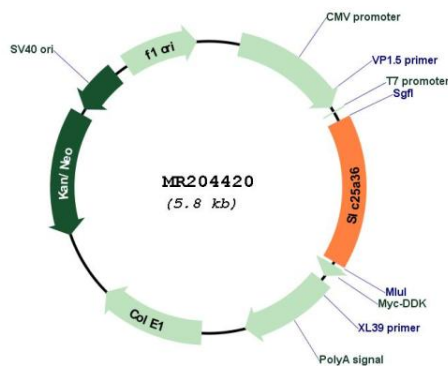
UniProt ID: [Q922G0](#)

Cytogenetics: 9 E3.3

MW: 34.2 kDa

Gene Summary: Mitochondrial transporter that imports/exports pyrimidine nucleotides into and from mitochondria. Transports preferentially cytosine and uracil (deoxy)nucleoside mono-, di-, and triphosphates by uniport and antiport mechanism. Also transports guanine but not adenine (deoxy)nucleotides. Is inhibited strongly by pyridoxal 5'-phosphate, 4,7-diphenyl-1,10-phenanthroline, tannic acid, and mercurials (mercury dichloride, Mersalyl acid, p-hydroxymercuribenzoate). Participates in mitochondrial genome maintenance, regulation of mitochondrial membrane potential and mitochondrial respiration.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204420