

Product datasheet for MR205459

Slc25a3 (NM_133668) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a3 (NM_133668) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a3
Synonyms:	5730556H19Rik; Phc; PTP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205459 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTCGTCCGTAGCGCACCTGGCGGGCGAACCCCTTCAACGCGCCACACCTGCAGCTGGTGCACG
ATGGCCTGTCCGGTCCCCGAGTCCCCAGCTCCGCCCGCGTTCGCCACCTGGCCGCCGCCCGCT
GGAAGAGTACAGTTGTGAATTTGGCTCCATGAAGTATTATGCACTGTGTGGCTTTGGTGGGTCTTAAGT
TGTGGGTGACACACACTGCTGTTGCCCTGGACTTAGTAAAGTGCCGCATGCAGGTGGACCCTCAGA
AGTACAAAGGCATATTTAATGGATTCTCCATTACACTGAAAGAAGATGGCGTTCGTGGTTTGGCTAAAGG
ATGGGCCCAACTTTGATTGGCTATTCCATGCAAGGGCTCTGCAAATTCGGCTTTTATGAAGCTTCAA
GCCTTATATAGCAACATACTTGGTGAGGAAAACCTACCTGTGGCGCACATCACTGATTTAGCTTCTT
CTGCCAGTGTGAATTCTTCGCTGACATTGCCCTGGCTCCTATGGAAGCTGCTAAAGTTCGAATTCAAAC
CCAGCCTGGTTATGCCAACACCTTGAGGGAAGCTGTTCCCAAATGTATAAAGAGGAAGGCTTAAATGCG
TTCTACAAGGGCGTTGCTCCTCTGTGGATGAGACAGATCCCGTACACCATGATGAAGTTCGCTGCTTTG
AACGTAAGCTTTGAAGCTTTGTACAAATTTGTGGTTCCTAAGCCCCGAAGTGAATGTACAAAGGCAGAGCA
GCTGGTTGTGACATTTGTGCGAGGTTACATAGCTGGAGTCTTCTGTGCGATCGTCTCCACCCTGCTGAC
TCTGTGGTCTCTGTGCTGAATAAAGAGAAAGGCAGCACCCTGCTCAGGTCTGCAGAGGCTGGCTTCA
GAGGTGTGTGGAAGGGCTCTTCGCCGAATCATCATGATTGGCACTCTGACTGCATACAGTGGTTCAT
CTACGACTCTGTGAAGGTCTACTTCAGGCTCCCTCGCCCTCCTCCCCCTGAGATGCCAGAGTCTCTGAAG
AAGAAGCTTGGTTAACTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205459 protein sequence
 Red=Cloning site Green=Tags(s)

MFSSVAHLARANPFNAPHLQLVHDGLSGPRSPAPPRRSRHLAAAVEEYSCEFSGSMKYALCGFGGVLSCGLTHTAVVPLDLVKCRMQVDPQKYKGI FNGFSITLKEDGVRGLAKGWAPTLIGYSMQGLCKFGFYEYVFKALYLSNILGEENTYLWRTSLYLASSASAEFFADIALAPMEA AKVRIQTQPGYANTLREAVPKMYKEEGLNAFYKGVAPLWMRQIPYTMKMFACFERTVEALYKFVVPKPRSECTKAEQLVTVFVAGYIAGVFC AIVSHPADSVVSVLNKEKGSTASQVLQRLGFRGVWKGLFARIIMIGLTLALQWFIYDSVKVYFRLPRPPPEMPESLKKLGLTE

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_133668

ORF Size: 1074 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_133668.4](#)

RefSeq Size: 1512 bp

RefSeq ORF: 1074 bp

Locus ID: 18674

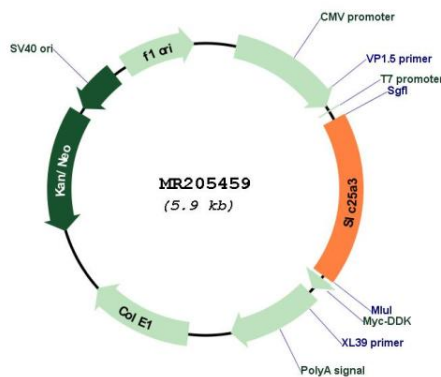
UniProt ID: [Q8VEM8](#)

Cytogenetics: 10 C2

MW: 39.6 kDa

Gene Summary: Transport of phosphate groups from the cytosol to mitochondrial matrix. Phosphate is cotransported with H(+). May play a role regulation of the mitochondrial permeability transition pore (mPTP) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205459