

Product datasheet for **RR214408**

Slc25a25 (NM_145677) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a25 (NM_145677) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a25
Synonyms:	Mcsc; Pcscl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214408 representing NM_145677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCTGCCTGTGCCTGTATGTGCCCATCGCTGGAGAGGCTCAGACTGAATCCAATACTTTGAGTCCA
 AGGGGCTTCCCACCGAGCTGAAATCCATCTTCAAACCTCAGTGTCTTTATCCCCTCTCAGGAGTTCTCCAC
 ATACCGCCAATGGAAGCAGAAAATTGTGCAAGCAGGTGACAAGGACCTTGATGGGCAACTGGACTTCGAA
 GAGTTTGTACATTACCTCCAAGACCATGAGAAAAAAGTGGGCTGGTGTAAAGAGTCTGGACAAAAAGA
 ATGATGGGCGAATCGATGCTCAGGAGATCATGCAGTCCCTGCGGGATCTGGGTGTCAAGTCTCTGAACA
 GCAGGCGGAGAAGATTCTTAAGAGCATGGATAAGAATGGGACAATGACCATCGACTGGAACGAGTGGAGG
 GACTACCACCTCTGCACCCTGTGGAGAACATCCCTGAGATCATCTGTACTGGAAGCACTCGACGATCT
 TCGATGTTGGTGAGAATCTGACAGTCCCAGATGAGTTCACAGTGGAGGAGAGGCAGACAGGGATGTGGT
 GAGGCACCTGGTGGCAGGAGGTGGTGCAGGGCCAGTTCCAGAACCTGCACTGCCCCCTGGACAGACTG
 AAGGTGCTCATGCAGGTCCATGCCTCCCGCAGCAACAACATGTGCATCATAGGTGGATTCACACAGATGA
 TTCGAGAAGGGGGCGCCAAGTCCCTCTGGAGGGGCAATGGCATCAATGTCTCAAATGGCCCTGAGTC
 AGCCATCAAGTTCATGGCATATGAGCAGATGAAACGCCTTGTGGTAGTGATCAGGAGACGCTGAGGATC
 CACGAAAGGCTAGTGGCAGGCTCCTTGGCTGGGGCCATTGCCAGAGTAGCATCTACCCAATGGAGGTTC
 TGAAGACCCGAATGGCCCTGCGGAAAACAGGCCAGTACTCGGGAATGCTGGACTGTGCCAAGAGGATCCT
 GGCTAAGAGGGTGTGGCTGCCTTCTATAAAGGCTACATCCCAACATGCTGGGGATCATCCCGTATGCG
 GGCATCGATCTAGCTGTCTATGAGACATTGAAAAATACCTGGCTACAGCGCTATGCTGTAACAGTGCAG
 ACCCTGGCGTGTGGTCTCCTGGCCTGTGGCACAATCTCCAGTACCTGTGGCCAAGTGGCCAGCTACCC
 ACTAGCCCTGGTCAGGACTCGGATGCAGGCACAAGCCCTCCATTGAGGGTGCACCTGAGGTAACCATGAGC
 AGCCTCTTCAAACAGATTCTGCGGACTGAGGGGGCCTTTGGGCTCTACCGGGGCTGGCCCCCAACTTCA
 TGAAGGTGATTCCAGCTGTGAGCATCAGCTACGTGGTCTACGAGAACCTGAAGATCACCTGGGCGTGCA
 GTCTCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214408 representing NM_145677
 Red=Cloning site Green=Tags(s)

MLCLCLYVPIAGEAQTEFQYFESKGLPTELKSIKLSVFIQSEFSTYRQWKQKIVQAGDKLDGQLDFE
 EFVHYLQDHEKKLRLVFKSLDKKNDGRIDAQEIMQSLRDLGVKISEQQAEEKILKSMDKNGTMTIDWNEW
 DYHLLHPVENIPEIILYWKHSTIFDVGENLTVPDEFTVEERQTMWWRHLVAGGGAGAVSRTCTAPLDRL
 KVLMLQVHASRSNNMCIIGGFTQMIREGGAKSLWRGNGINLVKIAPESAIFMAYEQMKRLVGSQDETLE
 HERLVAGSLAGIAQSSIYPMEVLKTRMALRKTGQYSGMLDCAKRILAKEGVAAFYKGYIPNMLGIIPYA
 GIDLAVYETLKNLWLRQYAVNSADPGVFVLLACGTISSTCGQLASYPLALVRTRMVAQASIEGAPEVTMS
 SLFKQILRTEGAFGLYRGLAPNFMKVIPAVSISYVVYENLKITLGVQSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

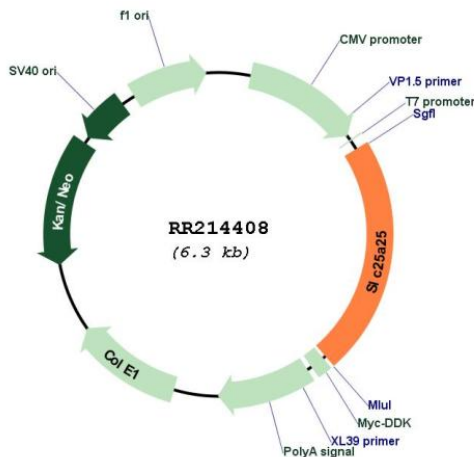
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_145677

ORF Size:

1407 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_145677.1](#), [NP_663710.1](#)

RefSeq Size: 3150 bp

RefSeq ORF: 1410 bp

Locus ID: 246771

UniProt ID: [Q8K3P6](#)

Cytogenetics: 3p11

MW: 52.7 kDa

Gene Summary: member of the mitochondrial calcium dependent solute carrier family; may play a role in hepatocyte differentiation and function [RGD, Feb 2006]