

Product datasheet for **RR212727**

Slc25a41 (NM_001106874) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a41 (NM_001106874) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR212727 representing NM_001106874 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGTCCATCTGGAGGTTCTGGACACAGGAGAGCAGCTGATGGTTCCTGGGGATGTCTTGAAGAGG
 AAAACAAGGGGACCCTGTGGAAGTTTCTGCTCTCCGGAGCCATGGCTGGGGCAGTGTCTCGCACAGGGAC
 AGCACCTCTGGACAGAGCTAGGGTGTACATGCAGGTATACTCTCCAAAAGTAATTTCAGGCACCTGCTG
 AGTGGCCTGCGGAGCCTGGTCCAGGAGGGCGGTATCCGCTCACTCTGGCGGGCAATGGTATAAACGTGC
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 GCACACATCCCCGTCCTTCCAGGAACGGGTGGTCGCAGGCTCCCTGGCTGTGGCTATCTCCAGACACTC
 ATCAATCCCATGGAGGTACTCAAGACTCGACTGACCCCTTCGCTTCACCGGGCAGTACAAAGGGCTTCTGG
 ACTGTGCCAGGCAGATCTTGGAGCGGGACGGCACCCGAGCCCTCTACCGAGGCTACCTGCCAACATGTT
 GGGCATCATACCCTACGCTTGTACTGACCTGGCTGTTTATGAGCTACTCCGGTGCTTGTGGCAGAAGTCG
 GGCAGGGACATGAAGGACCCAGTGGCCTCGTCAGCCTGTCGTCTGTAACACTGTCCACGACCTGTGGTC
 AGATGGCCAGTTACCACTGACTTTGGTGCGCACAAGGATGCAGGCACAAGACTGTGGAGGGCTCCAA
 CCCCACCATGCTGGGAGTCTTCAAGAGGATACTGAACCAGCAGGGCTGGCCTGGGCTATACAGAGGCATG
 ACACCCACATTACTGAAGGTGTTGCCAGCAGGAGGCATCAGCTACCTGGTGTATGAGGCCATGAAGAAAA
 CCCTGGGTGTACAAGTCTGAGCAGA

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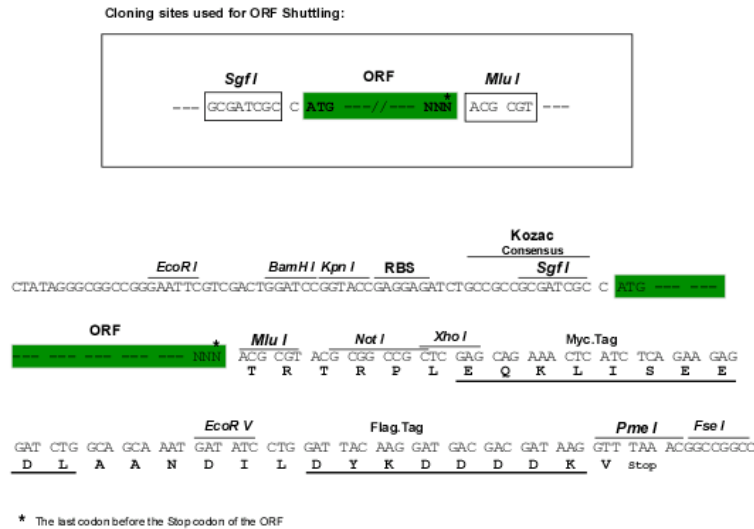
Protein Sequence: >RR212727 representing NM_001106874
 Red=Cloning site Green=Tags(s)

MGVHLEVLDTGEQLMVPGDVLEENKGT LWKFLLSGAMAGAVSRTGTAPLDRARVYMQVYSSKSNFRHLL
 SGLRSLVQEGGIRSLWRGNGINVLKIAPEYAIKFSVFEQSRNFFYGVHTSPSFQERVVAGSLAVAIQTL
 INPMEVLKTRLTLRFTGQYKGLLDCARQILERDGTALYRGYLPNMLGIIPYACTDLAVYELLRCLWQKS
 GRDMKDPISGLVSLSSVTLSSTCGQMASYPLTLVRTRMQAQDTVEGSNPTMLGVFKRILNQGWPGLYRGM
 TPTLLKVLPAAGISYLVYEAMKKTLGVQVLSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001106874

ORF Size: 936 bp

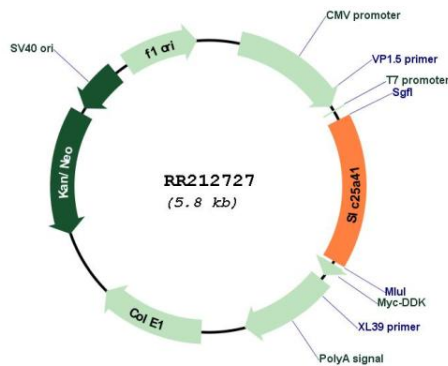
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001106874.1, NP_001100344.1</u>
RefSeq Size:	1235 bp
RefSeq ORF:	939 bp
Locus ID:	301114
UniProt ID:	<u>B8ZHC9</u>
Cytogenetics:	9q12
MW:	34.6 kDa
Gene Summary:	Calcium-independent ATP-Mg/Pi exchanger that catalyzes the electroneutral exchange of Mg-ATP or free ADP against an hydrogenphosphate and participates in the net transport of adenine nucleotides across the mitochondria inner membrane.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR212727