

Product datasheet for RC225437

SLC25A36 (NM_001104647) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A36 (NM_001104647) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC25A36
Synonyms:	PNC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225437 representing NM_001104647 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCCAGAGGGACACGCTGGTGCATCTGTTTGCCGGAGGATGTGGTGGTACAGTGGGAGCTATTCTGA
 CATGTCCACTGGAAGTTGTAAAAACACGACTGCAGTCATCTTCTGTGACGCTTTATTTCTGAAGTTCA
 GCTGAACACCATGGCTGGAGCCAGTGTCAACCGAGTAGTGTCTCCCGACCTCTTCATTGCCTAAAGGTG
 ATCTTGAAAAAGAAGGGCCTCGTTCCTTGTTTAGAGGACTAGGCCCAATTTAGTGGGGTAGCCCTT
 CCAGAGCAATATACTTTGCTGCTTATTCAAAGTCAAGGAAAAGTTGAATGATGTATTTGATCCTGATTC
 TACCCAAGTACATATGATTTAGCTGCAATGGCAGGTTTTACTGCAATCACAGCAACCAACCCATTG
 CTTATAAAGACTCGGTTACAGCTTGATGCAAGGAACCGCGGGGAAAGGCGAATGGGTGCTTTGAATGTG
 TTCGTAAAGTGTATCAGACAGATGGACTAAAAGGATTTTATAGGGGCATGTCTGCTTCATATGCTGGTAT
 ATCAGAGACTGTTATCCATTTTGTATTTATGAAAGTATAAAACAAAACTACTGGAATATAAGACTGCT
 TCTACAATGGAAGATGATGAAGAGTCTGTGAAAGAAGCATCAGATTTTGTGGGAATGATGCTAGCTGCTG
 CCACCTCAAAAATTGTGCCACAATATAGCATATCCACATGAAGTTGTAAGAACAAGACTACGTGAAGA
 GGAACAAAATACAGATCTTTTTTTCAGACTCTATCTTTGCTTGTCAAGAAGAAGGTTATGGGTCTCTT
 TATCGTGGTCTGACAACATCATCTAGTGAGACAGATTCCAAACACAGCCATTATGATGGCCACCTATGAAT
 TGGTGGTTTACCTACTCAATGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC225437 representing NM_001104647
Red=Cloning site Green=Tags(s)

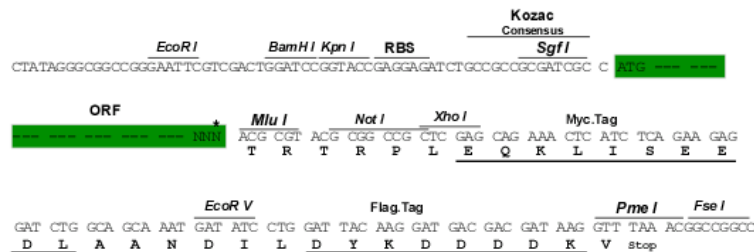
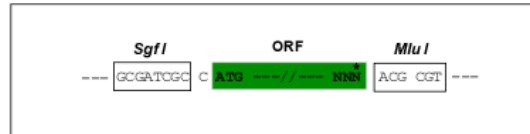
MSQRDTLVHLFAGGCGGTGAILTCPLEVVKTRLQSSSVTLYISEVQLNTMAGASVNRVSPGPLHCLKV
ILEKEGPRSLFRGLGPNLVGVAPSRAIYFAAYSNCKEKLNDFDPDSTQVHMISAAMAGFTAITATNPIW
LIKTRLQLDARNRGERRMGAFCVRKVYQTDGLKGFYRGMSASYAGISETVIHFVIYESIKQLLEYKTA
STMENDEESVKEASDFVGMMLAAATSKTCATTIAYPHEVVRTRLREEGKYRSFFQTL SLLVQEEGYGSL
YRGLTTHLVRQIPNTAIMMATYELVVYLLNG

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_001104647

ORF Size: 933 bp

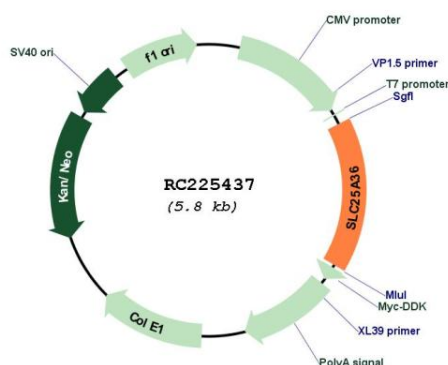
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001104647.3</u>
RefSeq ORF:	936 bp
Locus ID:	55186
UniProt ID:	<u>Q96CQ1</u>
Cytogenetics:	3q23
Protein Families:	Druggable Genome, Transmembrane
MW:	34.1 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 RC225437