

Product datasheet for **RG225437**

SLC25A36 (NM_001104647) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A36 (NM_001104647) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC25A36
Synonyms:	PNC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225437 representing NM_001104647 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCAGAGGGACACGCTGGTGCATCTGTTTGCCGGAGGATGTGGTGTACAGTGGGAGCTATTCTGA
CATGTCCACTGGAAGTTGTA AAAACACGACTGCAGTCATCTTCTGTGACGCTTTATTTTCTGAAGTTCA
GCTGAACACCATGGCTGGAGCCAGTGTCAACCGAGTAGTGTCTCCCGACCTCTTCATTGCCATAAGGTG
ATCTTGAAAAAAGAGGGCCTCGTTCCTGTTTAGAGGACTAGGCCCAATTTAGTGGGGTAGCCCTT
CCAGAGCAATATACTTTGCTGCTTATTCAAACTGCAAGGAAAAGTTGAATGATGATTTGATCCTGATTC
TACCCAAGTACATATGATTTTCAGCTGCAATGGCAGGTTTTACTGCAATCACAGCAACCAACCCATTGG
CTTATAAAGACTCGGTTACAGCTTGATGCAAGGAACCGCGGGAAAGGCGAATGGGTGCTTTTGAATGTG
TTCGTAAGTGTATCAGACAGATGGACTAAAAGGATTTTATAGGGGCATGTCTGCTTCATATGCTGGTAT
ATCAGAGACTGTTATCCATTTTGTATTTATGAAAGTATAAAACAAAACACTGGAATATAAGACTGCT
TCTACAATGAAAATGATGAAGAGTCTGTGAAAGAAGCATCAGATTTTGTGGGAATGATGCTAGCTGCTG
CCACCTCAAAAACCTGTGCCACAACATAGCATATCCACATGAAGTTGTAAGAACAAGACTACGTGAAGA
GGGAACAAAATACAGATCTTTTTTTCAGACTCTATCTTTGCTTGTCAAGAAGAAGGTTATGGGTCTCTT
TATCGTGGTCTGACAACATCATCTAGTGAGACAGATTCCAACACAGCCATTATGATGGCCACCTATGAAT
TGGTGGTTTACCTACTCAATGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225437 representing NM_001104647
 Red=Cloning site Green=Tags(s)

MSQRDTLVHLFAGGCGTVGAILTCPLEVVKTRLQSSSVTLYISEVQLNTMAGASVNRVSPGPLHCLKV
 ILEKEGPRSLFRGLGNLVGVAPSRAIYFAAYSNCKEKLNDFDPDSTQVHMISAAMAGFTAITATNPIW
 LIKTRLQLDARNRGERRMGAFECVRKVYQTDGLKGFYRGMASASYAGISETVIHFVIYESIKQLLEYKTA
 STMENDEESVKEASDFVGMMLAAATSKTCATTIAYPHEVVRTRLREEGTKYRSFFQTLSELLVQEEGYGSL
 YRGLTTHLVRQIPNTAIMMATYELVVYLLNG

TRTRPLE - GFP Tag - V

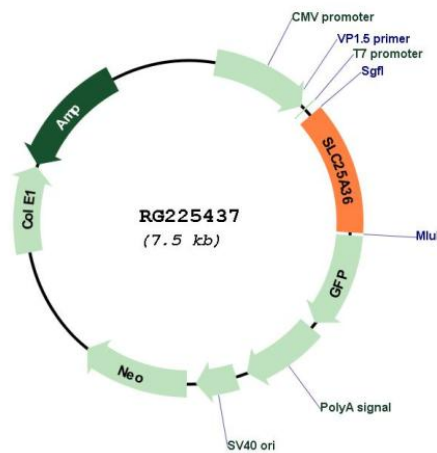
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<ol style="list-style-type: none">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_001104647.3
RefSeq Size:	4677 bp
RefSeq ORF:	936 bp
Locus ID:	55186
UniProt ID:	Q96CQ1
Cytogenetics:	3q23
Protein Families:	Druggable Genome, Transmembrane
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]