

Product datasheet for **RG229846**

SLC25A21 (NM_001171170) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC25A21 (NM_001171170) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLC25A21
Synonyms: MTDPS18; ODC; ODC1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229846 representing NM_001171170
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGCCAAGCCTGAAGTCAGCTTAGTGCGCGAGGCTTCTCGGCAGATCGTGGCCGGTGGTTCTGCAG
GTCTTGTAGAAATTTGCCTGATGCACCCCTAGATGTGGTGAAAACCAGGTTTCAGATTCAGAGATGTGC
AACCGATCCAACAGTTATAAAAGCTTGGTAGACAGCTTTCGAATGATTTTCAAATGGAAGGGTTATTT
GGTTTTTACAAGGAATTCTGCCACCTATCTTGGCTGAAACCCCAAAAAGAGCAGTGAAGTTTTTCACT
TTGAGCAGTACAAGAAATTGCTGGGATATGTGTCCTGTCACCAGCATTGACATTCGCCATTGCTGGATT
GGGATCTGGACTAACAGAAGCCATTGTAGTTAACCCTTTTGAGGTAGTAAAAGTTGGCTTGAAGCAAAAT
CGGAACACATTTGCAGAGCAACCATCCACTGTGGGTTATGCAAGACAAATCATTAAAGAAAGGCTGGG
GACTCCAGGGCCTCAACAAGGATTAAGTCAACTTTGGGACGACATGGAGTTTTCAACATGGTTTTATTT
TGGCTTCTACTACAATGTCAAAAACATGATTCCTGTCAATAAGGATCCAATCTTGGAGTTTTGGAGAAAA
TTTGGGATTGGTCTTCTCTCGGGACAATAGCCTCAGTCATTAACATCCCTTTTGATGTTGCCAAAAGTA
GGATTCAGGGCCTCAACCAGTTCCTGGAGAGATCAAGTACAGAACCTGTTTTAAACAATGGCAACAGT
CTATCAGGAAGAAGGGATTTTAGCTTTGTACAAAGGCCTGCTTCCAAGATTATGAGACTTGACCAGGT
GGTGCAGTGATGCTGCTGTTTATGAATACACCTATTCATGGCTTCAAGAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229846 representing NM_001171170
 Red=Cloning site Green=Tags(s)

MSAKPEVSLVREASRQIVAGGSAGLVEICLMHPLDVVKTRFQIQRCAIDPNSYKSLVDSFRMIFQMEGLF
 GFYKGIPLPILAETPKRAVKFFTFEQYKLLGYVSLPALTFIAIAGLGSGLTEAIVVNPFEVVKVGLQAN
 RNTFAEQPSTVGARQIIKKEGWGLQGLNKGLTATLGRHGVNMYVYFGFYNNVKNMIPVKNKDPILFWRK
 FGIGLLSGTIIASVINIPFDVAKSRIQGPQVPVGEIKYRTCFKTMATVYQEEGILALYKGLLPKIMRLGPG
 GAVMLLVYEYTYSWLQEN

TRTRPLE - GFP Tag - V

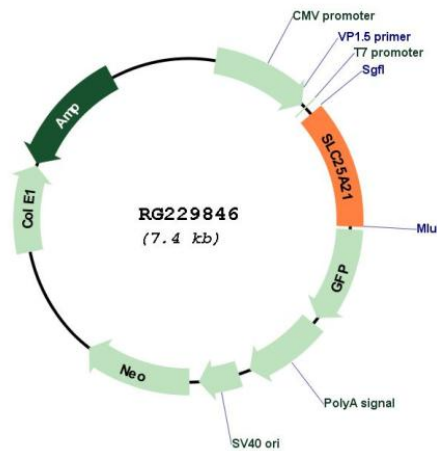
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001171170

ORF Size: 894 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_001171170.2
RefSeq Size:	1770 bp
RefSeq ORF:	897 bp
Locus ID:	89874
UniProt ID:	Q9BQT8
Cytogenetics:	14q13.3
Gene Summary:	SLC25A21 is a homolog of the <i>S. cerevisiae</i> ODC proteins, mitochondrial carriers that transport C5-C7 oxodicarboxylates across inner mitochondrial membranes. One of the species transported by ODC is 2-oxoadipate, a common intermediate in the catabolism of lysine, tryptophan, and hydroxylysine in mammals. Within mitochondria, 2-oxoadipate is converted into acetyl-CoA.[supplied by OMIM, Apr 2004]