

Product datasheet for **RG204580**

SLC25A32 (NM_030780) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC25A32
Synonyms:	GLYB; MFT; MFTC; RREI
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204580 representing NM_030780
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGGGCCAGGGCCAGTCGGCGTCCGGGTCGTCGGCGTGGAGCACGGTATTCGCCACGTCCGGTATG
AGAACCTGATAGCGGGCGTGAGCGGCGGCGTCTTATCCAACCTTGCCTGCATCCGCTCGACCTCGTGAA
GATCCGCTTCGCCGTGAGTGATGGATTGGAAGTGAACCGGAAATATAATGGAATTTACATTGCTTGACT
ACCATTTGAAACTTGATGGACTACGGGACTTTATCAAGGAGTAACCCAAATATATGGGGTGCAGGTT
TATCCTGGGGACTCTACTTTTTCTTTTACAATGCCATCAAGTCATATAAAACAGAAGGAAGAGCTGAACG
TTTAGAGGCAACAGAATACCTTGCTCAGCTGCTGAAGCTGGAGCCATGACCTCTGCATTACAAACCCA
TTATGGGTAACAAAACCTCGCCTTATGTTACAGTATGATGCTGTTGTTAACTCCCCACACCGACAATATA
AAGGAATGTTTGATACACTTGTAATATATAAGTATGAAGGTGTGCGTGGATTATATAAGGGATTGT
TCCTGGGCTGTTTGGAACATCGCATGGTGCCCTTCAGTTTATGGCATATGAATTGCTGAAAGTGAAGTAC
AACCAGCATATCAATAGATTACCAGAAGCCAGTTGAGCACAGTAGAATATATCTGTTGCAGCACTAT
CCAAAATATTTGCTGTCGAGCAACATACCCATATCAAGTCGTAAGAGCTCGTCTTCAGGATCAACACAT
GTTTTACAGTGGTGAATAGATGTAATCAGAAAGACATGGAGGAAAGAAGGCGTCGGTGGATTTTACAAG
GGAATTGCTCCTAATTTGATTAGAGTGACTCCAGCCTGCTGATTACCTTTGTGGTATATGAAAACGCTCT
CACATTTTTACTTGACCTTAGAGAAAAGAGAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG204580 representing NM_030780
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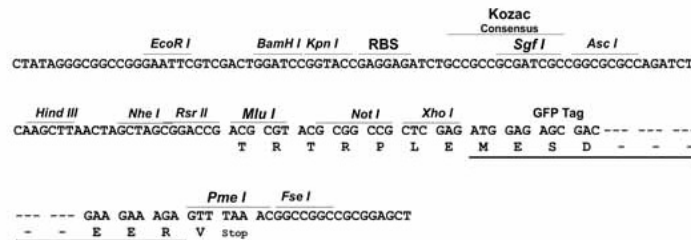
MTGQQQSASGSSAWSTVFRHVRyenLIAGVSGGVLsnLALHPLDLVKIRFAVSDGLELRPKYNGILHCLT
 TIWKLDGLRGLYQGVTPNIWGAGLSWGLYFFFYNAIKSYKTEGRAERLEATEYLVSAEAGAMTLCITNP
 LWVTKRLMLQYDAVVNSPHRQYKGMFDTLVKIYKIEGVRLYKGFVPLFGTSHGALQFMAYELLKLY
 NQHINRLPEAQLSTVEYISVAALSKIFAATYPYQVVRARLQDQHMFSYSGVIDVITKTWRKEGVGGFYK
 GIAPNLIIRVTPACITFVYENVSHFLDLREKRK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_030780

ORF Size: 945 bp

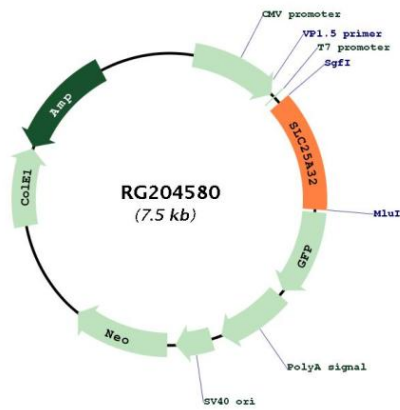
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_030780.5</u>
RefSeq Size:	2840 bp
RefSeq ORF:	948 bp
Locus ID:	81034
UniProt ID:	<u>Q9H2D1</u>
Cytogenetics:	8q22.3
Domains:	mito_carr
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the P(I/L)W subfamily of mitochondrial carrier family transport proteins. The encoded protein transports folate across the inner mitochondrial membrane. Alternatively spliced transcript variants have been described. [provided by RefSeq, Mar 2013]

Product images:



Circular map for RG204580