

Product datasheet for RC236575

Citrate transport protein (SLC25A1) (NM_001287387) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Citrate transport protein (SLC25A1) (NM_001287387) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SLC25A1
Synonyms: CMS23; CTP; D2L2AD; SEA; SLC20A3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236575 representing NM_001287387
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTTTCGAGTTCCTCAGCAACCACATGCGGGATGCCAGGGACGGCTGGACAGCACGCGTGGGCTGCTGT
 GCGGCCTGGGCGCTGGCGTGGCCGAGGCCGTGGTGGTCTGTGCCCATGGAGACCATCAAGGTGAAGTT
 CATCCACGACCAGACCTCCCAAACCCCAAGTACAGAGGATTCTCCACGGGGTTAGGGAGATTGTGCGG
 GAACAAGGGCTGAAGGGGACGTACCAGGGCCTCACAGCCACTGTCTGAAGCAGGGCTCGAACCAGGCCA
 TCCGCTTCTTCGTCATGACCTCCCTGCGCAACTGGTACCGAGGGGACAACCCCAACAAGCCCATGAACCC
 TCTGATCACTGGGGTCTTCGGAGCTATTGCAGGCGCAGCCAGTGTCTTTGGAAACTCCTCTGGATGTG
 ATTAAGACCCGGATGCAGGGCCTGGAGGCGCACAAATACCGGAACACGTGGGACTGCGGCTTGCAGATCC
 TGAAGAAGGAGGGGCTCAAGGCATTCTACAAGGGCACTGTCCCCCGCCTGGGCCGGGTCTGCCTGGATGT
 GGCCATAGTGTGTTCATCTATGATGAAGTGGTGAAGCTGCTCAACAAAGTGTGAAGACGGAC

CTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACG
 ATAAGGTTTAA

Protein Sequence: >RC236575 representing NM_001287387
 Red=Cloning site Green=Tags(s)

MFEFLSNHMRDAQRLDSTRGLLCLGLGAGVAEAVVVVCPMETIKVKFIHDQTSNPVKYRGGFFHGVREIVR
 EQGLKGTYYQLTATVLKQGSNQAIRFFVMTSLRNWYRGDNPKNPMLITGVFGAIIAGAASVFGNTPLDV
 IKTRMQGLEAHKYRNTWDCGLQILKKEGLKAFYKGTVPRLGRVCLDVAVFVIYDEVVKKLNKVKWKT

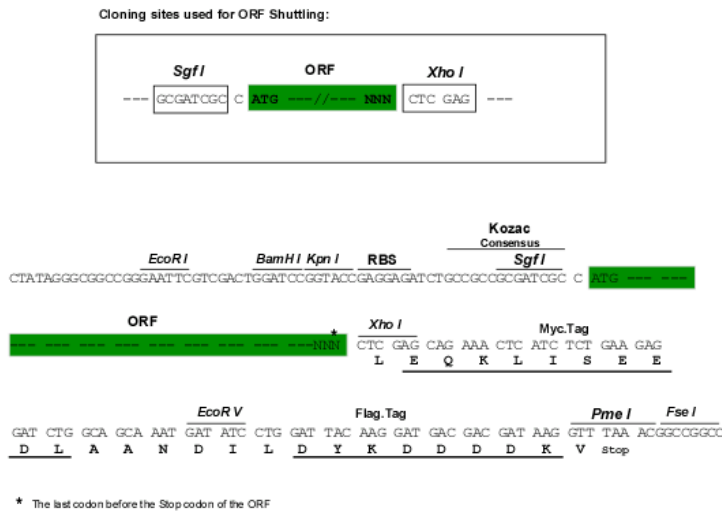
LEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-XhoI

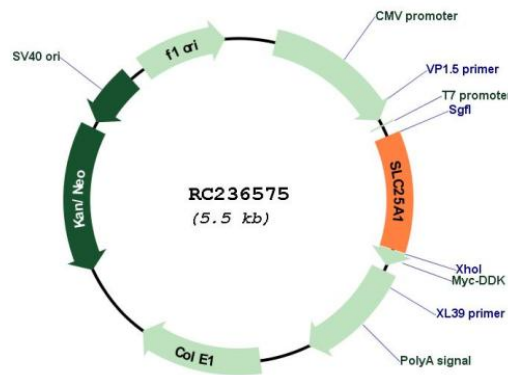


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001287387

ORF Size: 624 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: [NM_001287387.2](#)

RefSeq Size: 1516 bp

RefSeq ORF: 627 bp

Locus ID: 6576

Cytogenetics: 22q11.21

Protein Families: Druggable Genome

MW: 23.7 kDa

Gene Summary: This gene encodes a member of the mitochondrial carrier subfamily of solute carrier proteins. Members of this family include nuclear-encoded transporters that translocate small metabolites across the mitochondrial membrane. This protein regulates the movement of citrate across the inner membranes of the mitochondria. Mutations in this gene have been associated with combined D-2- and L-2-hydroxyglutaric aciduria. Pseudogenes of this gene have been identified on chromosomes 7, 11, 16, and 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]