

Product datasheet for **SC313614**

SLC25A23 (NM_024103) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A23 (NM_024103) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A23
Synonyms:	APC2; MCSC2; SCaMC-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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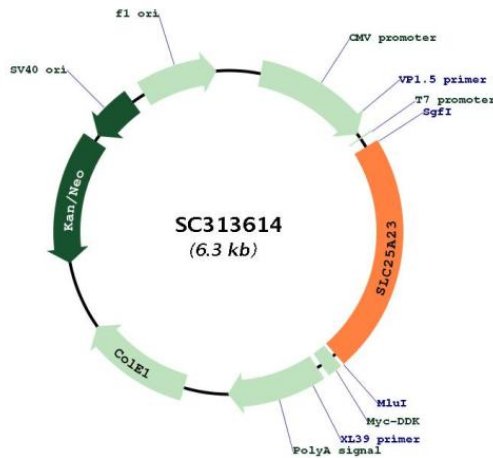
Fully Sequenced ORF: >SC313614 representing NM_024103.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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GACCCCGGCGCCCAACAGGGTATCTCCTCTGAGGGTATGCTGACCCAGATGGCGGGCTCGACCTGGAG
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TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_024103

Insert Size: 1407 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_024103.2</u>
RefSeq Size:	3475 bp
RefSeq ORF:	1407 bp
Locus ID:	79085
UniProt ID:	<u>Q9BV35</u>
Cytogenetics:	19p13.3
Domains:	mito_carr, EFh
Protein Families:	Druggable Genome
MW:	52.4 kDa
Gene Summary:	Calcium-dependent mitochondrial solute carrier. Mitochondrial solute carriers shuttle metabolites, nucleotides, and cofactors through the mitochondrial inner membrane (PubMed:15123600). May act as a ATP-Mg/Pi exchanger that mediates the transport of Mg-ATP in exchange for phosphate, catalyzing the net uptake or efflux of adenine nucleotides into or from the mitochondria (PubMed:15123600). Acts as a regulator of mitochondrial calcium uptake via interaction with MCU and MICU1 (PubMed:24430870).[UniProtKB/Swiss-Prot Function]