

Product datasheet for **RC222503**

SLC25A24 (NM_213651) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A24 (NM_213651) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC25A24
Synonyms:	APC1; SCAMC-1; SCAMC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC222503 representing NM_213651
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGACTCCCTCTACGGAGATCTCTTTTGGTACCTGGACTATAACAAGGATGGGACCTTGGACATTTTGG
 AGCTTCAGGAAGCCTGGAGGATGTAGGGGCCATTCAATCTCTAGAGGAAGCGAAGAAAATTTTACTAC
 TGGAGATGTCAACAAAGATGGGAAGCTGGATTTTGAAGAATTTATGAAGTACCTTAAAGACCATGAGAAG
 AAAATGAAATTGGCATTAAAGAGTTTAGACAAAAATAATGATGGAAAAATTGAGGCTTCAGAAATTTGTC
 AGTCTCTCCAGACACTGGGTCTGACTATTTCTGAACAACAAGCAGAGTTGATTCTTCAAAGCATTGATGT
 TGATGGGACAATGACAGTGGACTGGAATGAATGGAGAGACTACTTCTATTTAATCCTGTTACAGACATT
 GAGGAAATTATCCGTTTCTGGAAACATTCTACAGGAATTGACATAGGGGATAGCTTAACTATTCCAGATG
 AATTCACGGAAGACGAAAAAAATCCGGACAATGGTGGAGGCAGCTTTTGGCAGGAGGCATTGCTGGTGC
 TGTCTCTCGAACAAGCACTGCCCTTTGGACCGTCTGAAAATCATGATGCAGGTTACCGTTCAAAATCA
 GACAAAATGAACATATTTGGTGGCTTTCGACAGATGGTAAAAGAAGGAGGTATCCGCTCGCTTTGGAGGG
 GAAATGGTACAAACGTCATCAAAATTGCTCCTGAGACAGCTGTTAAATTCGCGCATATGAACAGTACAA
 GAAGTTACTTACTGAAGAAGGACAAAAATAGGAACATTTGAGAGATTTATTTCTGGTTCATGGCTGGA
 GCAACTGCACAGACTTTTATATATCCAATGGAGGTTATGAAAACAGGCTGGCTGTAGGCAAACTGGGC
 AGTACTCTGGAATATATGATTGTGCAAGAAGATTTTGAACATGAAGGCTTGGGAGCTTTTACAAAGG
 CTATGTTCCCAATTTATTAGGTATCATACCTATGCAGGCATAGATCTTGCTGTGTATGAGCTCTTGAAG
 TCCTATTGGCTGGATAATTTTGCAAAAGATTCTGTAACCCTGGAGTCATGGTGTGCTGGGATGCGGTG
 CCTTATCCAGCACCTGTGGTCAGCTGGCCAGCTACCCATTGGCTTTGGTGAGAACTCGCATGCAGGCTCA
 AGCCATGTTAGAAGGTTCCCCACAGCTGAATATGGTTGGCTCTTTCGACGAATTATTTCCAAAGAAGGA
 ATACCAGGACTTTACAGAGGCATCACCCAAACTTCATGAAGGTGCTCCCTGCTGTAGGCATCAGTTATG
 TGGTTTATGAAAATATGAAGCAAACCTTAGGAGTAACCCAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222503 representing NM_213651
 Red=Cloning site Green=Tags(s)

MDSLYGDLFWYLDYNKDGTLDFELQEGLEDVGAIQSLEAKKIFTTGDVNKGKLDFFEFMKYLDHEK
 KMKLAFKSLDKNNDGKIEASEIVQSLQTLGLTISEQQAEILQSIDVDGTMVDWNEWRDYFLFNPVTDI
 EEIIRFWKHSTGIDIGDSLTIPEFTEDEKKSQWWRQLLAGGIAGAVSRTSTAPLDRLKIMMQVHGSKS
 DKMNIFFGGFRQMVKEGGIRSLWRNGNTNVIKAPETAVKFWAYEQYKLLTEEGQKIGTFERFISGSMAG
 ATAQTFIYPMEVMKTRLAVGKTGQYSGIYDCAKKILKHEGLGAFYKGYVPLLGIIPYAGIDLAVYELLK
 SYWLDNFAKDSVNPVGMVLLGCGALSSTCGQLASYPLALVRTRMQAQAMLEGSPQLNMVGLFRRIISKEG
 IPGLYRGITPNFMKVLPAVGISYVVYENMKQTLGVTQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8040_e08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_213651

ORF Size: 1374 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: [NM_213651.3](#)

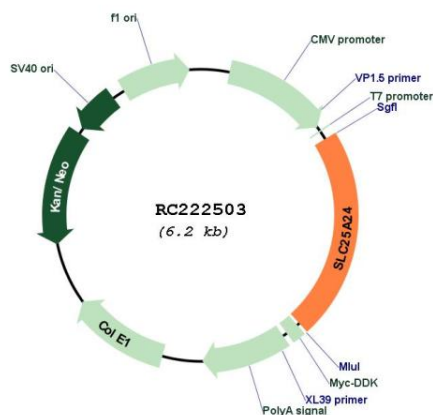
RefSeq Size: 3344 bp

RefSeq ORF: 1377 bp

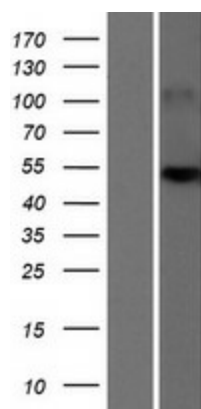
Locus ID: 29957

UniProt ID:	<u>Q6NUK1</u>
Cytogenetics:	1p13.3
Protein Families:	Druggable Genome
MW:	51.2 kDa
Gene Summary:	This gene encodes a carrier protein that transports ATP-Mg exchanging it for phosphate. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]

Product images:



Circular map for RC222503



Western blot validation of overexpression lysate (Cat# [LY403879]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222503 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).