

Product datasheet for **RC207449**

SLC41A2 (NM_032148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC41A2 (NM_032148) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC41A2
Synonyms:	SLC41A1-L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207449 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGTATCACAGTTTCTCAGAGCAGTCTTTTCATGCCAATAATGGGCACGCATCATCAAGCTGCAGCC
 AAAAGTATGATGACTATGCCAATTATAATTACTGTGATGGAAGGAGACTTCAGAAAACCACTGCCATGTT
 ACAAGATGAAGATATATCTAGTATGGTATGAAGATGCTATTGTAGAAGTGACCCCAAATACCAAAG
 GAATCCAGTGGCATCATGGCATTGCAAATACTTGTGCCCTTTTCTAGCTGGTTTTGGAACAGTTTCAG
 CTGGCATGGTACTGGATATAGTACAGCACTGGGAGGTGTTAGAAAAGTTACAGAAGTTTCATTTTAGT
 CCCTGCACCTTCTGGTCTCAAAGGGAACCTGGAATGACATTGGCATCCAGATTATCCACTGCAGTAAAT
 ATGGGAAGATGGATTACCCATTGAAAAGTGAACCTAATAATTGGCAACTGGCTTTAAAGCAGGTTT
 AGGCAACAGTAGTGGTTTTCTAGCAGCTGTGGCAGCAATTATATTGGGCTGGATCCAGAAGGAAAATA
 TTACCTTGATCATTCCATACTTCTGTGCTTAGCAGTGTGGCACTGCCTTCATTGCATCTCTTCTGCAG
 GGAATAATAATGGTTGGGGTTATCGTTGGTTCAAAGAAGACTGGTATAAATCCTGATAATGTTGCTACAC
 CCATTGCTGCTAGTTTTGGCGACCTTAACTCTTGCCATATTGGCTGGATAAGTCAGGGCTTATACTC
 CTGCTTGAGACCTATTACTACATTTCTCCATTAGTTGGTGTATTTTTCTGGCTCTAACCCCTATTTGG
 ATTATAATAGCTGCCAAACATCCAGCCACAAGAACAGTTCTCCACTCAGGCTGGGAGCCTGTCATAACAG
 CTATGGTTATAAGTAGCATTGGGGGCTTATTCTGGACACAACGTATCAGACCCAACTGGTTGGGAT
 TGTTGTTTACACGCCAGTTATTAATGGTATTGGTGGTAATTTGGTGGCCATTGAGGCTAGCAGGATTTCT
 ACCTACCTCCATTTACATAGCATTCCAGGAGAATTGCCTGATGAACCCAAAGTTGTTACTACCCATTTA
 GAACCTTTCTTTGGTCCAGGAGTAATAAATAAGTCTGCTCAAGTTCTACTGCTTTTACTGATTCCTGGAG
 TTTAATTTTCTCTACACTATTCATTTGATGAAAAGTGGTCATACTTCTTTAACTATAATCTTCATAGTA
 GTGATTTTATTTGGCGCTGTGTTACAGGTATTTACCTTGCTGTGGATTGCTGACTGGATGGTCCATCACT
 TCTGGAGGAAAGGAAAGGACCCGGATAGTTTCTCCATCCCTACCTAACAGCATTGGGTGATCTGCTCGG
 GACAGCTCTGTTAGCCTTAAGTTTTCATTTTCTTTGGCTATTGGAGATCGAGATGGAGATGTTGGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207449 protein sequence
 Red=Cloning site Green=Tags(s)

MEYHSFSEQSFHANNGHASSSCSQKYDDYANYNYCDGRETSETTAMLQDEDISSDGEDAIVEVTPKLPK
 ESSGIMALQILVPFLLAGFGTVSAGMVLDIVQHEVFRKVTEVFILVPALLGLKGNLEMTLASRLSTAVN
 IGKMDSPIEKWNLIIGNLALKQVQATVVGFLAAVAIIILGWIPGKYLDHSILLCSSSVATAFIASLLQ
 GIIMVGIVGSKKTGINPDNVATPIAASFGLITLAILAWISQGLYSCLETYIYISPLVGVFFLALTPIW
 IIIAAKHPATRTVLHSGWEPVITAMVISSIGGLILDTTVSDPNLVGIVVYTPVINGIGGNLVAIQASRIS
 TYLHLHSIPGELPDEPKGCYYPFRFFGPGVNNKSAQVLLLLVIPGHLIFLYTIHLMKSGHTSLTIIFIV
 VYLFQAVLQVFTLLWIADWMVHHFWRKGKDPDSFSIPYL TALGDLLGTALLALSFHFLWLIGDRDGDVGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6336_d02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_032148

ORF Size: 1470 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_032148.2](#), [NP_115524.2](#)

RefSeq Size: 3548 bp

RefSeq ORF: 1722 bp

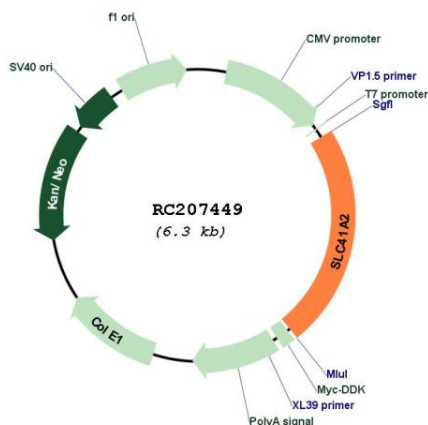
Locus ID: 84102

UniProt ID: [Q96JW4](#)

Cytogenetics: 12q23.3

Domains: MgtE
 Protein Families: Transmembrane
 MW: 53.3 kDa
 Gene Summary: Acts as a plasma-membrane magnesium transporter.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC207449