

Product datasheet for **RG207449**

SLC41A2 (NM_032148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC41A2 (NM_032148) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC41A2
Synonyms:	SLC41A1-L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207449 representing NM_032148
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTATCACAGTTTCTCAGAGCAGTCTTTTCATGCCAATAATGGGCACGCATCATCAAGCTGCAGCC
 AAAAGTATGATGACTATGCCAATTATAATTACTGTGATGGAAGGAGACTTCAGAAACCACTGCCATGTT
 ACAAGATGAAGATATATCTAGTATGGTATGAAGATGCTATTGTAGAAGTGACCCCAAATACCAAAG
 GAATCCAGTGGCATCATGGCATTGCAAATACTTGTGCCCTTTTCTAGCTGGTTTTGGAACAGTTTCAG
 CTGGCATGGTACTGGATATAGTACAGCACTGGGAGGTGTTAGAAAAGTTACAGAAGTTTCATTTTAGT
 CCCTGCACCTTCTGGTCTCAAAGGGAACCTGGAATGACATTGGCATCCAGATTATCCACTGCAGTAAAT
 ATGGGAAGATGGATTACCCATTGAAAAGTGAACCTAATAATTGGCAACTGGCTTTAAAGCAGGTTCC
 AGCAACAGTAGTGGTTTTCTAGCAGCTGTGGCAGCAATTATATTGGGCTGGATTCCAGAAGGAAAATA
 TTACCTTGATCATTCCATACTTCTGTGCTTAGCAGTGTGGCAACTGCCTTCATTGCATCTCTTCTGCAG
 GGAATAATAATGGTTGGGGTTATCGTTGGTTCAAAGAAGACTGGTATAAATCCTGATAATGTTGCTACAC
 CCATTGCTGCTAGTTTTGGCGACCTTAACTCTTGCCATATTGGCTTGATAAGTCAGGGCTTATACTC
 CTGCTTGAGACCTATTACTACATTTCTCCATTAGTTGGTGTATTTTTCTGGCTCTAACCCCTATTTGG
 ATTATAATAGCTGCCAAACATCCAGCCACAAGAACAGTTCTCCACTCAGGCTGGGAGCCTGTCATAACAG
 CTATGGTTATAAGTAGCATTGGGGGCTTATTCTGGACACAACCTGTATCAGACCCAAACTGGTTGGGAT
 TGTTGTTTACACGCCAGTTAATGGTATTGGTGGTAATTTGGTGGCCATTGAGGCTAGCAGGATTTCT
 ACCTACCTCCATTTACATAGCATTCCAGGAGAATTGCCTGATGAACCCAAAGGTTGTTACTACCCATTTA
 GAACCTTTCTTTGGTCCAGGAGTAAATAAAGTCTGCTCAAGTTCTACTGCTTTTACTGCTTTTACTGCT
 TTTAATTTTCTCTACACTATTCATTTGATGAAAAGTGGTCATACTTCTTTAACTATAATCTTCATAGTA
 GTGATTTTATTTGGCGCTGTGTTACAGGTATTTACCTTGCTGTGGATTGCTGACTGGATGGTCCATCACT
 TCTGGAGGAAAGGAAAGGACCCGGATAGTTTCTCCATCCCTACCTAACAGCATTGGGTGATCTGCTCGG
 GACAGCTCTGTTAGCCTTAAGTTTTCATTTTCTTTGGCTATTGGAGATCGAGATGGAGATGTTGGAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207449 representing NM_032148
 Red=Cloning site Green=Tags(s)

MEYHSFSEQSFHANNGHASSSCSQKYDDYANYNYCDGRETSETTAMLQDEDISSDGEDAIVEVTPKLPK
 ESSGIMALQILVPFLLAGFGTVSAGMVLDIVQHWEVFRKVTEVFILVPALLGLKGNLEMTLASRLSTAVN
 IGKMDSPIEKWNLIIIGNLALKQVQATVVGFLAAVAIIILGWIPGKYLDHSILLCSSSVATAFIASLLQ
 GIIMVGIVGSKKTGINPDNVATPIAASFGLITLAILAWISQGLYSCLETYIIISPLVGVFFLALPIW
 IIAAKHPATRTVLHSGWEPVITAMVISSIGLILDTTVSDPNLVGIVVYTPVINGIGGNLVAIQASRIS
 TYLHLHSIPGELPDEPKGCYYPFRFFGPGVNNKSAQVLLLLVIPGHLIFLYTIHLMKSGHTSLTIIFIV
 VYLFGAVLQVFTLLWIADWMVHHFWRKGDPSFSIPYLTALGDLLGTALLALSFHFLWLIGDRDGDVGD

TRTRPLE – GFP Tag – V

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: 2442 bp

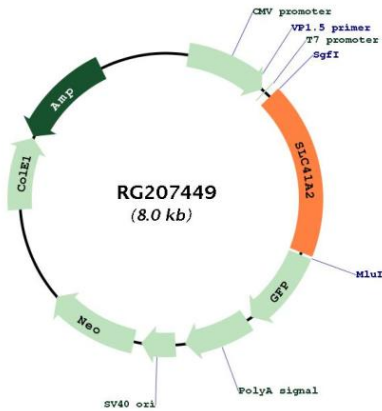
RefSeq ORF: 1722 bp

Locus ID: 84102

UniProt ID: [Q96JW4](#)

Cytogenetics: 12q23.3
 Domains: MgtE
 Protein Families: Transmembrane
 Gene Summary: Acts as a plasma-membrane magnesium transporter.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207449