

Product datasheet for **MG219840**

Slc41a2 (NM_177388) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc41a2 (NM_177388) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc41a2
Synonyms:	A230035L05Rik; 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:

>MG219840 representing NM_177388
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCACAGTAAAGGAAGACCTGTCACTTACAAGACAAGTCCAGTCCGGAGAGTGGAGGAGTTTTG
 TAGATTGGACTTTAAATTTAAATACAATCAATCTGACAAGTTTTGAACTTACTTTAAGCATGGTGCC
 AGTCATTTACCAGAAAAATCAGGAAGACAGGCATAAAAAAGTAAATGGCATCTGGCAGGACGGGCTGTCG
 GGTGCAGCACAGACCTTCAGCAAGAGATCAGAGCCACATCTGGACTACCACGAGTTCTCAGAGCAAGCCT
 TCCACAGCAGCAGCAGTGGGCACACTCCAGCCAGCTGCAGCCCCAAGTACGATGACTATGCTGGCTATAA
 CTACTGTGACGGGAGGGAGGCTTCGAAACCACCGCCATGTTACAGGACGAAGATCTGTCCAGCGAGGGC
 GATGATGTTATTGTGAAACAAGCCAGAGGATCCAAAGGAGTCCAGTGGGGTTCATGGCTCTGCAGATAT
 TGGTGCCATTCTGCTGGCTGGGTTTGAACGGTTTCTGCTGGCATGGTTTTGGACATAGTGCAGCACTG
 GGAGGTGTTCAAAAATGTGACAGAAGTCTTCATTTTGGTCCCCGGCTTCTTGGTCTTAAAGGAACTTG
 GAAATGACGCTGGCTTCTCGATTACTACTGCAGTAAATGTTGGGAAGATGGACTCACCCATTGAGAAGT
 GGAATCTAATCATTGGCAACTTGGCTTTAAAGCAGGTTACAGCCACAGTGGTTGGCTTTTTAGCAGCTGT
 GGCAGCCATCACTGGGCTGGATTCCAGAAGGGAAGTATTACCTCAGCCATTCCATACTTCTGTGCTCC
 AGCAGTGTGGCAACGGCCTTCATCGCATCTCTACTGCAGGGAATAATAATGGTTGGTGTATCGTTGGCT
 CCAAGAAGACTGGCATAAACCCGTGACAACGTGGCCACACCCATTGCTGCTAGTTTTGGTGATCTGATAAC
 TCTCGCCATATTAGCTTGATAAGTCAAGGTTTGTACTCCTGTCTTGAGACATATTATTACATTTCCCCA
 TTAGTGTGTGCCTTTTTCTGGCTCTGACTCCTATCTGGATTATAATAGCTGCCAAGCACCCAGCTACCA
 GGACAGTGTCCACTCAGGCTGGGAGCCTGTCAACAGCCATGGTTATAAGCAGCATCGGGGGCCTTAT
 TCTGGACACAACCTGTATCTGACCCAAACTTGGTTGGGATTGTTGTTTACACGCCAGTTATCAACGGGATC
 GGTGGCAATTTGGTGGCCATTACAGGCTAGCAGGATTTCTACCTACCTCCATTTACATAGCATCCCCGGAG
 AACTACCTGAGGAGCCAAAGGCTGTTCTACCCATTTAGGACATTTTTTGGTTCAGGAGTGAACAATAA
 GTCTGCCAGGTTCTCCTGCTCTTCGTGATCCCGGGCCACTTGATCTTCTCTACACAATTCACCTGATG
 AAGAGTGGCCACACCTCTCTGACTGTAGTCTTTGTTGTTGTACCTGTTTGTGCTGTGCTGCAGGTGT
 TCACCCTGCTGTGGATCGCCGACTGGATGGTCCATCGCTTCTGGAGAAAAGGAAAGGCCAGACAGTTT
 CTCCATCCCGTACCTCACGGCGCTGGCGATCTGCTTGGGACTGCTCTGCTGGCCTTAAGCTTCCATTTT
 CTCTGGCTCATTGGAGACCGAGATGGAGACGTTGGAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219840 representing NM_177388
 Red=Cloning site Green=Tags(s)

MTHSKGRPVYKTSASPESGGGFVDWTLNLNTIQSDKFLNLLLMPVVIYQKNQEDRHKKVNGIWDGLS
 GAAQTFSKRSEPHLDYHEFSEQAFHSSSSGHTPASCSPKYDDYAGYNYCDGREASETTAMLQDEDLSSSEG
 DDVIVETSQRIPKESGVMALQILVPFLLAGFGTVSAGMVLDIVQHWEVFKNVTEVFILVPALLGLKGNL
 EMTLASRLSTAVNVGKMDSPIEKWNLIIGNLALKQVQATVVGFLAAVAAILGWIPGKYLLSHSILLCS
 SSVATAFIASLLQGIIMVGIVVGSKKTGINPDNVATPIAASFGLITLAILAWISQGLYSCLETYYPYIS
 LVCAFFLALTPWIWIIIAAKHPATRTVLHSGWEPVITAMVISSIGGLILDTTVSDPNLVGIVVYTPVINGI
 GGNLVAIQASRISTYLHLHSIPGELPEEPKGCSPFRFFGSGVNNKSAQVLLLFPVPHLIFLYTIHLM
 KSGHTSLTVVFFVVVYLF AAVLQVFLLWIADWMVHRFWRKGDPSFSIPYLTALGDLLGTALLALS FHF
 LWLIGDRDGDVGD

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<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:	NM_177388.3 , NP_796362.1
RefSeq Size:	4386 bp
RefSeq ORF:	1722 bp
Locus ID:	338365
UniProt ID:	Q8BYR8
Cytogenetics:	10 C1
Gene Summary:	Acts as a plasma-membrane magnesium transporter.[UniProtKB/Swiss-Prot Function]