

Product datasheet for **SC313794**

SLC41A1 (NM_173854) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC41A1 (NM_173854) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC41A1
Synonyms:	MgtE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC313794 representing NM_173854.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCCTCTAAGCCAGAGCCGAAGGACGTCCACCAACTGAACGGGACTGGCCCTTCTGCCTCTCCCTGC
TCTTCAGATGGCCAGGGAGAGAGCCCTTGGCTGGGACCTCAGAGTTCTTGGGGCTGATGGGGCTGGG
GTAGAGGTGGTGATTGAGTCTCGGGCCAACGCCAAGGGGTTTCGGGAGGAGGACGCCCTGCTGGAGAAC
GGGAGCCAGAGCAACGAAAGTGACGACGTGACGACAGACCGTGGCCCTGCGCCACCTTCCCCGCTCAAG
GAGACCTCCTTTTCCATCGGGCTGCAAGTACTGTTTCCATTCTCCTGCGAGGCTTTGGGACCGTGGCT
GCTGGCATGGTGTGGACATCGTGCAGCACTGGGAAGTCTTCCAGAAGGTGACAGAGGTCTTCATCTA
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AACATTGGACACATGGACACACCAAGGAGCTCTGGCGGATGATCACTGGGAACATGGCCCTCATCCAG
GTGCAGGCCACGGTGGTGGGCTTCTGGCGTCCATCGCAGCCGTCGTCTTTGGCTGGATCCCTGATGGC
CACTTCAGTATTCCGCACGCCTTCTGCTCTGTGCTAGCAGCGTGGCCACAGCCTTCATTGCCTCCCTG
GTACTGGGTATGATCATGATTGGAGTCATATTGGCTCTCGCAAGATTGGGATCAACCCAGACAACGTG
GCCACACCCATTGCTGCCAGCCTGGGCGACCTCATCACCTTGGCGCTGCTCTCAGGCATCAGCTGGGGA
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CCTGTCTGGTGGTGTGCTGGCCGACGAAGTCCAGCCACAAGGGAGGTGTTGTACTCGGGCTGGGAGCCT
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TTTGCTGGGATGGCTGTCTTACGCCTGTGATTAATGGTGTGGGGGCAATCTGGTGGCAGTGCAGGCC
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CTCGTGGTCCCAGGACACCTGGTGTCTCTACCCATCAGCTGTATGCAGGGCGGGCACACCAACCTC
ACACTCATCTTATCATCTTCTATATGACAGCTGCACTGCTCCAGGTGCTGATTCTCCTGTACATCGCA
GACTGGATGGTGCAGTGGATGTGGGGCCGGGCTGGACCCGACAACCTCTCCATCCCATACTTGACT
GCTCTGGGGACCTGCTTGGCACTGGGCTCTAGCACTCAGCTTCCATGTTCTCTGGCTCATAGGGGAC
CGAGACACGGATGTGGGGACTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_173854

Insert Size: 1542 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:	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_173854.5</u>
RefSeq Size:	5032 bp
RefSeq ORF:	1542 bp
Locus ID:	254428
UniProt ID:	<u>Q8IVJ1</u>
Cytogenetics:	1q32.1
Protein Families:	Transmembrane
MW:	54.9 kDa
Gene Summary:	Acts as a magnesium transporter that is responsive to magnesium balance.[UniProtKB/Swiss-Prot Function]