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Product datasheet for MC218812

Slc11a1 (NM_013612) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc11a1 (NM_013612) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc11a1
Synonyms:	Bcg; Ity; ity; Ity1; Lsh; Nramp; Nramp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC218812 representing NM_013612
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTAGTGACAAGAGCCCCCCGAGGCTGAGCAGGCCCAGTTATGGCTCCATTTCCAGCCTGCCTGGCC
CAGCACCTCAGCCAGCGCCTTGCCGGGAGACCTACCTGAGTGAGAAGATCCCCATTCCCAGCGCAGACCA
GGGTACATTCAGCCTGAGGAAGCTGTGGGCGTTCACGGGGCCTGGTTTCCTCATGAGCATCGCTTTCCTT
GACCCGGGAAACATTGAGTCCGACCTTCAAGCTGGCGCTGTGGCTGGGTTCAAACTCCTCTGGGTGCTGC
TCTGGGCGACTGTGCTAGGTTTGCTGTGCCAGCGGCTGGCTGCCCGGCTGGGCGTGGTGACAGGCAAGGA
CTTGGGTGAAGTCTGCCATCTCTACTACCCCAAGGTGCCCCGCATCCTCCTCTGGCTGACCATTGAGCTG
GCCATTGTGGGCTCAGATATGCAGGAAGTCATCGGGACGGCTATCTCCTTCAATCTGCTCTCCGCTGGAC
GCATCCCGCTGTGGGACGGTGTACTGATCACCATTGTGGACACCTTCTTCTTCCTCTTCTTGGATAACTA
TGGTTTGCGCAAGCTGGAAGCTTTCTTCGGTCTCCTCATTACCATAATGGCTTTGACCTTCGGCTATGAG
TATGTGGTAGCACACCCTTCCCAGGGAGCGCTCCTTAAGGGCCTGGTGCTGCCCACCTGTCCGGGCTGTG
GGCAGCCCGAGCTGCTGCAGGCAGTGGGCATCGTCGGTGCCATCATCATGCCCCATAACATCTACCTGCA
CTCAGCCTTGGTCAAGTCTAGAGAAGTAGACAGAACCCGCCGGGTGGATGTTCGAGAAGCCAACATGTAC
TTCCTGATTGAGGCCACCATCGCCCTATCGGTGTCCTTCATCATCAACCTCTTCGTCATGGCTGTTTTTG
GTCAGGCCTTCTACCAGCAAACCAATGAGGAAGCGTTCAACATCTGTGCCAACAGCAGCCTCCAGAACTA
TGCTAAGATCTTCCCCAGGGACAATAACACTGTGTCAGTGGATATTTATCAAGGAGGTGTGATCCTAGGC
TGTCTCTTTGGCCCTGCGGCCCTCTACATCTGGGCAGTAGGTCTCCTGGCAGCGGGGCAGAGTTCTACTA
TGACCGGCACCTATGCAGGACAGTTCGTGATGGAGGGTTTCCTTAAGCTGCGGTGGTCCCGCTTCGCTCG
GGTCCTTCTCACGCGCTCTTGCGCCATCCTGCCCACTGTGTTGGTGGCTGTCTTCCGAGACCTGAAGGAC
CTGTCCGGCCTCAACGATCTACTCAATGTTCTGCAGAGTCTACTGCTGCCCTTCGCTGTACTGCCCATTT
TGACTTTCACCAGCATGCCAGCTGTCATGCAGGAGTTTGCCAACGGCCGGATGAGCAAAGCCATCACTTC
GTGCATCATGGCGCTAGTCTGCGCCATCAACCTGTACTTTGTGATCAGCTACCTGCCCAGCCTCCCGCAC
CCTGCCTACTTTGGCCTTGTGGCTCTGTTCGCAATAGGTTACTTGGGCCTGACTGCTTATCTGGCCTGGA
CCTGTTGCATCGCCCACGGAGCCACCTTCCTGACCCACAGCTCCCACAAGCACTTCTTATATGGGCTCCC
TAACGAGGAGCAGGGAGGCGTGCAGGGTTCCGGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013612

Insert Size: 1647 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).

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_013612.2, NP_038640.2
RefSeq Size:	2304 bp
RefSeq ORF:	1647 bp
Locus ID:	18173
UniProt ID:	P41251
Cytogenetics:	1 38.54 cM
Gene Summary:	Divalent transition metal (iron and manganese) transporter involved in iron metabolism and host resistance to certain pathogens. Macrophage-specific membrane transport function. Controls natural resistance to infection with intracellular parasites. Pathogen resistance involves sequestration of Fe(2+) and Mn(2+), cofactors of both prokaryotic and eukaryotic catalases and superoxide dismutases, not only to protect the macrophage against its own generation of reactive oxygen species, but to deny the cations to the pathogen for synthesis of its protective enzymes.[UniProtKB/Swiss-Prot Function]