

Product datasheet for MR226001

Slc22a17 (NM_021551) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc22a17 (NM_021551) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc22a17
Synonyms: 24p3R; 1700094C23Rik; AU041908; AW555662; Boct; BOIT
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226001 representing NM_021551
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCATCGGCCAGGTTTGGCCGTCGTGGGATTGTGCTGCTGACCTTGGGGCTTGTGGTCCCTGTGGAG
 TGGGAGGAGCTGCTGCAGGCTCCTACAGGCATTATGGCTCTTCGGTTTCTCCTGGGCTTCTGCTAGC
 TGGTGTGACCTTGGTGTCTACCTGATGCGCTGGAGCTGTGCGACCAACCCAGAGGCTTCGGGTGGCC
 CTGGCAGGGGAGTTGGTAGGGTGGGAGGGCATTCTGTTCCTGGGCCGGCCCTGTCTAAGGACT
 GCGGATTTCTACAGCAATGATACCGCTCCCTGCATCCTTCTCTGTTTATGGCTGGCCTGGTCTGTT
 TCTGGAGTCTGCACGGTGGCTGATAGTGAAGCGGCAGATTGAGGAAGCCAGTCTGTGCTGAGGATCCTG
 GCTGAGCGAAACCGCCCATGGCAGATGCTGGGAGAAGAGGCCAGGAAGCTTTCAGGAACTGGAGA
 ATACCTGTCTCTCCCTGCAACGTCACCTTTTCTTTGCGTCCCTCCTCAACTACCGCAACATCTGGAA
 AAATCTGCTTATCCTGGGCTTACCAACTTTATTGCCATGCCATTGCGCACTGTACCAGCCTGTGGGA
 GGAGGAGGCAGCCATCAGACTTCTACTTGTGCTCTGCTGGCCAGTGGCACAGCCGCCCTGGCCTGTG
 TCTTCTGGGGGTGACTGTGACCGTTTTGGCCGTCGGGCATCCTGCTTCTCAATGACTCTCACGGG
 GATTGCATCCCTGGTCTGCTGGGGCTGTGGGATTATCTGAACGATGCTGCCATCACAACCTTCTGTGC
 CTTGGCCTTTCTCCTCCAAGTTCTGCTATCCTCAGTACCCTCTTCTGAGTCACTCCCACCA
 CTGTCCGCGCCGTGGCCTGGCCTTATCATGGCACTTGGGCGCTCGGGGGGCTGAGCTGTCCAGCTCA
 GCGCCTCCACATGGGCCATGGAGCCTTCTGCAGCATGTGGTACTGGCGCCTGTGCCCTCCTGTATC
 CTCAGCATCATGCTGTTGCCAGAGACCAAGCGCAAGCTTCTGCCAGAGGTACTCCGGGATGGGAACTGT
 GCCGCGGCCCTTCCCTGCTGAGGCAGCCACCTCCTAACCGCTGTGACCATGTCCCCTGCTAGCCACTCC
 TAACCCTGCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226001 representing NM_021551
Red=Cloning site Green=Tags(s)

MPSARFGRRGIVLLTLGLVGPVGGAAAGSSTGIMALRFLGFLLAGVDLGVYLMRLELCDPTQRLRVALAGELVGVGGHFLFLGLALVSKDWRFLQRMITAPCILFLFYGWPLFLESARWLIVKRQIEEAQSVLRILAERNRPHGQMLGEEAQEALQELENTCPLPATSTFSFASLLNRYNIWKNLLILGFTNFIAHAIRHCYQPVGGGGSPDFYLCSSLASGTAALACVFLGVTDRFGRRGILLLSMTLTGIASLVLLGLWDYLNDAAITTFSVLGLFSSQASAILSTLLASEVIPPVVGRGLGLIMALGALGGLSCPAQRLHMHGGAFLQHVVLAACALLCLLSIMLLPETKRKLLPEVLRDGELECRPSLLRQPPNRCDHVPLLATPNPAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9018_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_021551

ORF Size: 1203 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_021551.4](#), [NP_067526.2](#)

RefSeq Size: 2294 bp

RefSeq ORF: 1206 bp

Locus ID: 59049

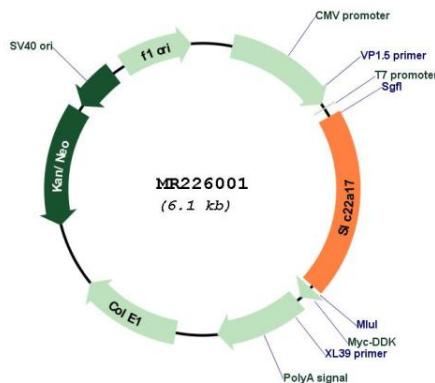
UniProt ID: [Q9D9E0](#)

Cytogenetics: 14 C2

MW: 43.6 kDa

Gene Summary: Cell surface receptor for LCN2 (24p3) that plays a key role in iron homeostasis and transport. Able to bind iron-bound LCN2 (holo-24p3), followed by internalization of holo-24p3 and release of iron, thereby increasing intracellular iron concentration and leading to inhibition of apoptosis. Also binds iron-free LCN2 (apo-24p3), followed by internalization of apo-24p3 and its association with an intracellular siderophore, leading to iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration and resulting in apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226001