

Product datasheet for **RC204544**

SLC22A17 (NM_020372) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A17 (NM_020372) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC22A17
Synonyms:	24p3R; BOCT; BOIT; hBOIT; NGALR; NGALR2; NGALR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204544 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCGGACCCCATCTTCACGCTGGCGCCCCGCTGCATTGCCACTACGGGGCCTTCCCCCTAATG
 CCTCTGGCTGGGAGCAGCTCCCAATGCCAGCGCGTCAGCGTCGCCAGCGCTGCCCTAGCAGCCAGCGC
 CGCCAGCCGTGTGCGCACCACTACCGACCCCTCGTGCAGCGGCTTCGCCCCGCCGACTTCAACCATTGC
 CTCAAGGATTGGGACTATAATGGCCTTCTGTGCTCACCACCAACGCCATCGGCCAGTGGGATCTGGTGT
 GTGACCTGGGCTGGCAGGTGATCCTGGAGCAGATCCTTTCATCTTGGGCTTTCCTCCGGCTACCTGTT
 CCTGGGTTACCCCGCAGACAGATTTGGCCGTGCGGGATTGTGCTGCTGACCTTGGGGCTGGTGGGCCCC
 TGTGGAGTAGGAGGGGCTGCTGCAGGCTCCTCCACAGGCGTCATGGCCCTCCGATTCCTCTTGGGCTTTC
 TGCTTGCCGGTGTGACCTGGGTGTCTACCTGATGCGCCTGGAGCTGTGCGACCAACCCAGAGGCTTCG
 GGTGGCCCTGGCAGGGGAGTTGGTGGGGTGGGAGGGCACTTCTGTTCTGGGCTGGCCCTTGTCTCT
 AAGGATTGGCGATTCTACAGCGAATGATCACCGCTCCCTGCATCCTCTTCTGTTTTATGGCTGGCCTG
 GTTTGTTCTGGAGTCCGCACGGTGGCTGATAGTGAAGCGGCAGATTGAGGAGGCTCAGTCTGTGCTGAG
 GATCCTGGCTGAGCGAAACCGGCCCATGGGCAGATGCTGGGGGAGGAGGCCAGGAGGCCCTGCAGGAC
 CTGGAGAAATACCTGCCCTCTCCCTGCAACATCCTCTTTCTTTGCTTCCCTCCTCAACTACCGCAACA
 TCTGGAAAAATCTGTTATCCTGGGCTTACCAACTTCATTGCCCATGCCATTGCCACTGCTACCAGCC
 TGTGGGAGGAGGGAGGCCATCGGACTTCTACCTGTGCTCTGCTGGCCAGCGGCACCGCAGCCCTG
 GCCTGTGCTTCTGGGGTACCGTGGACCGATTGGCCGCGGGGCATCCTTCTTCTCCATGACCC
 TTACCGGCATTGCTTCCCTGGTCTGCTGGGCTGTGGATTGTGAGCATCTATCTTCCCACAGTGTG
 GGCTCAACAAGGGAACCCCAACAGAGATCTGAACGAGGCTGCCATCACCCTTTCTGTCTTGGGCTC
 TTCTCCTCCAAAGCTGCCGCATCCTCAGCACCCCTCCTTGTGCTGAGGTGATCCCAACCTGTCCGGG
 GCCGTGGCCTGGGCTGATCATGGCTCTAGGGGCGCTTGGAGGACTGAGCGGCCCGGCCAGCGCCTCCA
 CATGGGCCATGGAGCCTTCTGCAGCACGTGGTGTGCGGCCCTGCGCCCTCCTCTGCATTCTCAGCATT
 ATGCTGCTGCCGAGACCAAGCGCAAGCTCCTGCCGAGGTGCTCCGGGACGGGGAGCTGTGCGCCGGC
 CTTCCCTGCTGCGGCAGCACCCCTACCCGCTGTGACCAGTCCCGCTGCTGCCACCCCAACCTGCG
 CCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204544 protein sequence
 Red=Cloning site Green=Tags(s)

MASDPIFTLAPPLHCHYGAFPPNASGWEPNAGVSVASAALAASAASRVATSTDPSCSGFAPPDFNHC
 LKDWDYNGLPVLTNAIGQWDLVCDLWQVILEQILFILGFASGYLFLGYPADRFRRGIVLLTLGLVGP
 CGVGGAAAGSSTGVMALRFLLGFLLAGVDLGVYLMRLELCDPTQRLRVALAGELVGVGGHFLFLGLALVS
 KDWRFLQRMITAPCILFLFYGWPLFLESARWLIVKRQIEEAQSVLRILAERNRPHGQMLGEEAQEALQD
 LENTCPLPATSSFSFASLLNYRNIWKNLLILGFTNFIAHAIRHCYQPVGGGGSPDFYLCSSLASGTAAL
 ACVFLGVTVDRFGRRGILLLSMTLTGIASLVLLGLWDCEHPIFPTVWAQQGNPNRDLNEAIIITFSVLGL
 FSSQAAAILSTLLAAEVIPTTVRGRGLGLIMALGALGGLSGPAQRLHMGHGAFLQHVVLAACALLCILSI
 MLLPETKRKLLPEVLRDGEICRRPSLLRQPPPTRCDHVPLLATPNPAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6232_f07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_020372

ORF Size: 1614 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_020372.3](#)

RefSeq Size: 2206 bp

RefSeq ORF: 1617 bp

Locus ID: 51310

UniProt ID: [Q8WUG5](#)

Cytogenetics: 14q11.2

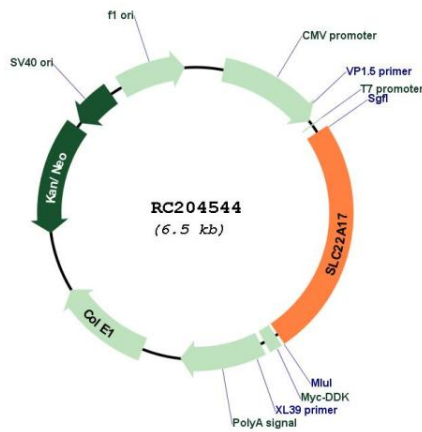
Domains: sugar_tr

Protein Families: Druggable Genome, Transmembrane

MW: 57.7 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204544