

Product datasheet for **SC113106**

SLC22A17 (NM_020372) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A17 (NM_020372) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC22A17
Synonyms:	24p3R; BOCT; BOIT; hBOIT; NGALR; NGALR2; NGALR3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_020372, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCGGACCCCATCTTCACGCTGGCGCCCCGCTGCATTGCCACTACGGGGCCTTCCCCCTAATG
CCTCTGGTGGGAGCAGCCTCCCAATGCCAGCGCGTCAGCGTCGCCAGCGCTGCCCTAGCAGCCAGCGC
CGCCAGCCGTGTGCCACCAAGTACCGACCCTCGTGCAGGGCTTCGCCCCGCCGACTTCAACCATTGC
CTCAAGGATTGGGACTATAATGGCTTCTGTGCTCACCACCAACGCCATCGGCCAGTGGGATCTGGTGT
GTGACCTGGGCTGGCAGGTGATCCTGGAGCAGATCCTTTCATCTTGGGCTTTGCCCTCCGGCTACCTGTT
CCTGGGTACCCCGCAGACAGATTTGGCCGTGCGGGGATTGTGCTGCTGACCTTGGGGCTGGTGGGCCCC
TGTGGAGTAGGAGGGGCTGCTGCAGGCTCTCCACAGGCGTCATGGCCCTCCGATTCTCTTGGGCTTTC
TGCTTGCCGGTGTGACCTGGGTGTCTACCTGATGCGCCTGGAGCTGTGCGACCCAACCCAGAGGCTTCG
GGTGGCCCTGGCAGGGGAGTTGGTGGGGGTGGGAGGGCACTTCTGTTCTGGGCTGGCCCTGTCTCT
AAGGATTGGCGATTCTACAGCGAATGATCACCCTCCCTGCATCTCTCTGTTTTATGGCTGGCCTG
GTTTGTCTCTGGAGTCCGCACGGTGGCTGATAGTGAAGCGGCAGATTGAGGAGGCTCAGTCTGTGCTGAG
GATCCTGGCTGAGCGAAACCGGCCCATGGGCAGATGCTGGGGGAGGAGGCCAGGAGGCCCTGCAGGAC
CTGGAGAATACCTGCCCTCTCCCTGCAACATCCTCTTTCTTTGCTTCCCTCCTCAACTACCGCAACA
TCTGAAAAATCTGCTTATCCTGGGCTTACCAACTTCATTGCCCATGCCATTGCCACTGCTACCAGCC
TGTGGGAGGAGGAGGGAGCCATCGGACTTCTACCTGTGCTCTCTGCTGGCCAGCGGCACCCGAGCCCTG
GCCTGTGTCTTCTGGGGTACCGTGGACCGATTTGGCCGCGGGGCATCTTCTTCTCCATGACCC
TTACCGGCATTGCTTCCCTGGTCTGCTGGGCTGTGGGATTGTGAGCATCTATCTTCCCACAGTGTG
GGCTCAACAAGGGAACCCCAACAGAGATCTGAACGAGGCTGCCATCACCCTTCTGTCTTGGGCTC
TTCTCCTCCCAAGCTGCCGCCATCCTCAGCACCTCCTTGTGCTGAGGTATCCCAACCACTGCTCCGGG
GCCGTGGCCTGGGCTGATCATGGCTCTAGGGGCGCTTGGAGGACTGAGCGGCCCGGCCAGCGCCTCCA
CATGGGCCATGGAGCCTTCTGCAGCACGTGGTGTGGCGGCTGCGCCCTCCTCTGCATTCTCAGCATT
ATGCTGCTGCCGAGACCAAGCGCAAGCTCCTGCCGAGGTGCTCCGGGACGGGAGCTGTGTGCCGGC
CTTCCCTGCTGCGGCAGCCACCCCTACCCGCTGTGACCAGTCCCGCTGCTTGCCACCCCAACCTGC
CCTCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020372 unedited

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NNGGGTTACATTTGTATACGACTCACTATAGGCGGCCGGATTGCGACGAGCCACCTCC
AACGGACAGGTCGGGACCCTCGGAGATGCGGTGCCACGGAGCAGCTGCAGGGTGAAGCG
GAGCGGAGCGGGAGGGGAGGGAGACGCGGGCGGACGACTGGGCAGCAGCCTGTGC
CTGGCCGTGCCCCAGGCCCCCTCAGCTTTGAGGCGTGTGCCCCAGGTGGGGCGCTG
GGCGGCGCCAGCAGCTGCAGCTCGGCTCTGCTGCTGCCGGTGTCTTCTGTTGCTCTG
GGCATGGCCTCGGACCCATCTTACGCTGGCGCCCCGCTGCATTGCCACTACGGGGCC
TTCCCCCTAATGCCTCTGGCTGGGAGCAGCCTCCCAATGCCAGCGGCGTCAAGCTGCGC
AGCGCTGCCCTAGCAGCCAGCGCCGACGCGTGTGCCACCAAGTACCGACCCCTCGTGC
AGCGGCTTCCGCCCGCGGACTTCAACCATTGCCTCAAGGATTGGGACTATAATGGCCTT
CCTGTGCTCACCACCAACGCCATCGGCCAGTGGGATCTGGTGTGTGACCTGNGCTGGCAG
GTGATCCTGGAGCAGATCCTTTCATCTTGGGCTTTGCCCTCCGGCTACCTGTTCTGGGT
TACCCCGCAGACAGATTTGGCCGTGCGGGATTGTGCTGCTGACCTTGGGGCTGGTGGG
CCCTGTGGAGTANGANGGGCTGCTGCAGGCTCCTCCACAGGCGTCATGGCCCTCCGATTC
CTTTGGGCTNTCTGCTTGCCGGTGTGACCTGGGTGTCTACCTGATGCGCCTGGAGCTG
TGCGACCCACCCANAGGCTTCGGTGCCTGCANNNGGAANTGTGGGGTTGGGAGGCACTT
CTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020372 unedited CACTGTGGGGAGGGGCTCACAGGGTATGCACACCCGGGGATCTGTTTCAGGTAACAGCT AGTGACCGCGCGCGCAATCTAGGAGTCGAGTTTTTTTTTTTTCTTTTTTTTTTTTTTTGTT TTTTTTTTTTTTTTTTTTTTTTTTTTTGATTGCCAAATGTCTTTTTTGAACAGAATGATAG AGCAAGAAATAATGGGGTCTGGGGGATGTCTTTGGGCCAGGATGGAGCCCAAACCCAG TGGTTACAGGGGGAGCTTTTCCCTGTCCCCTGACTTTGGCCAAGGAAGGAATGCAAA ACACCCGGGGGAGGCAGGGGGGGACCGCCCTTTGAGCTTTCCCGATGGCTGGGGTGA GGTGCCTTTAAAACTTTTGGGGAGCCCTGCCTTCCCTACTAAGTTTTCCGATTTTTTTG CCACCTTTTTGGGGGGCCAGCCTCCCCCAGGGTACTCAAAGGCCCTCAAAGGCAGG GTTGGGGGGGCAACAACGGGACCTGGTCACAACGGGTAGGGGGGGGCTCCCCAACAG GGAAGGGCGGGAACAACAACCTCCCGTCCCGGAGCACCTCGGGCAGGAGCTTGGCGTTGGT CTCCGGCACCACCATAATGCTGAAAATGCAAAGGAGGGGGCAGGCCCCCAACCCCGTG CTGGAGGAAGGCTCCATGGCCATGGGGAGGCCCTGGGCCGGGCCCTTAATCCTCCAAG CGCCCCTAGAGCCATGATCAGGCCAGGCCCGGGCCCGGGAAGTGGGGGGGATGACCC CACCACCAAGGAGGTGCCCGGGTAGGCGGCACTTGGGAGGAAAAACCCCGGACACA AAAAGTGGGGAGGGC
Restriction Sites:	ECoRI-NOT
ACCN:	NM_020372
Insert Size:	2250 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:	<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:	<u>NM_020372.2</u> , <u>NP_065105.2</u>
RefSeq Size:	2090 bp
RefSeq ORF:	1617 bp
Locus ID:	51310
UniProt ID:	<u>Q8WUG5</u>
Cytogenetics:	14q11.2
Domains:	sugar_tr
Protein Families:	Druggable Genome, Transmembrane

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]

Transcript Variant: This variant (1) encodes the longest isoform (a).