

Product datasheet for RC237317

SLC22A17 (NM_001289050) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC22A17 (NM_001289050) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SLC22A17
Synonyms: 24p3R; BOCT; BOIT; hBOIT; NGALR; NGALR2; NGALR3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237317 representing NM_001289050
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATCACCGCTCCCTGCATCCTTCTGTTTTATGGCTGGCCTGGTTTGTTCCTGGAGTCCGCACGGT
GGCTGATAGTGAAGCGGCAGATTGAGGAGGCTCAGTCTGTGCTGAGGATCCTGGCTGAGCGAAACCGGCC
CCATGGGCAGATGCTGGGGGAGGAGGCCAGGAGGCCCTGCAGGACCTGGAGAATACCTGCCCTCCTCCT
GCAACATCCTCCTTTTCCCTTTGCTTCCCTCCTCAACTACCGCAACATCTGGAAAAATCTGCTTATCCTGG
GCTTACCAACTTCATTGCCATGCCATTGCCACTGCTACCAGCCTGTGGGAGGAGGAGGGAGCCCATC
GGACTTCTACCTGTGCTCTGTCTGGCCAGCGGCACCGCAGCCCTGGCCTGTGTCTTCTGGGGTCAAC
GTGGACCGATTTGGCCCGGGGCATCCTTCTCTCCATGACCCCTACCGGCATTGCTTCCCTGGTCC
TGCTGGGCTGTGGGATTATCTGAACGAGGCTGCCATCACCATTCTGTCTTGGGCTTCTCCTC
CCAAGTGCAGCCATCCTCAGCACCCCTCCTGTGCTGAGGTATCCCCACCACTGTCCGGGGCCGTGGC
CTGGGCTGATCATGGCTCTAGGGGCGCTTGGAGGACTGAGCGGCCCGGCCAGCGCCTCCACATGGGCC
ATGGAGCCTTCTGCAGCACGTGGTGTGGCGGCTGCGCCCTCCTCTGCATTCTCAGATTATGCTGCT
GCCGGAGACCAAGCGCAAGCTCCTGCCGAGGTGCTCCGGGACGGGAGCTGTGTGCGCCGCTTCCCTG
CTGCGGCAGCCACCCCTACCCGCTGTGACCACGTCCCGCTGTTGCCACCCCAACCTGCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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:	<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:	NM_001289050.1 , NP_001275979.1
RefSeq Size:	2027 bp
RefSeq ORF:	909 bp
Locus ID:	51310
UniProt ID:	Q8WUG5
Cytogenetics:	14q11.2
Protein Families:	Druggable Genome, Transmembrane
MW:	33.1 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]