

Product datasheet for **RG214220**

SLC22A17 (NM_016609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A17 (NM_016609) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC22A17
Synonyms:	24p3R; BOCT; BOIT; hBOIT; NGALR; NGALR2; NGALR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214220 representing NM_016609
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCGGACCCCATCTTCACGCTGGCGCCCCGCTGCATTGCCACTACGGGGCCTTCCCCCTAATG
 CCTCTGGCTGGGAGCAGCCTCCCAATGCCAGCGCGTCAGCGTCGCCAGCGCTGCCCTAGCAGCCAGCGC
 CGCCAGCCGTGTGCGCACCAAGTACCGACCCCTCGTGCAGCGGCTTCGCCCCGCCGACTTCAACCATTGC
 CTCAAGGATTGGGACTATAATGGCCTTCTGTGCTCACCACCAACGCCATCGGCCAGTGGGATCTGGTGT
 GTGACCTGGGCTGGCAGGTGATCCTGGAGCAGATCCTTTCATCTTGGGCTTTCCTCCGGCTACCTGTT
 CCTGGGTTACCCCGCAGACAGATTTGGCCGTGCGGGATTGTGCTGCTGACCTTGGGGCTGGTGGGCCCC
 TGTGGAGTAGGAGGGGCTGCTGCAGGCTCCTCCACAGGCGTCATGGCCCTCCGATTCCTCTTGGGCTTTC
 TGCTTGCCGGTGTGACCTGGGTGTCTACCTGATGCGCCTGGAGCTGTGCGACCCAAACCAGAGGCTTCG
 GGTGGCCCTGGCAGGGGAGTTGGTGGGGTGGGAGGGCACTTCTGTTCTGGGCTGGCCCTTGTCTCT
 AAGGATTGGCGATTCTACAGCGAATGATCACCGCTCCCTGCATCCTCTTCTGTTTTATGGCTGGCCTG
 GTTTGTTCTGGAGTCCGCACGGTGGCTGATAGTGAAGCGGCAGATTGAGGAGGCTCAGTCTGTGCTGAG
 GATCCTGGCTGAGCGAAACCGGCCCATGGGCAGATGCTGGGGGAGGAGGCCAGGAGGCCCTGCAGGAC
 CTGGAGAAATACCTGCCCTCTCCCTGCAACATCCTCTTTTCTTTGCTTCCCTCCTCAACTACCGCAACA
 TCTGGAAAAATCTGCTTATCCTGGGCTTACCAACTTCATTGCCCATGCCATTGCCACTGCTACCAGCC
 TGTGGGAGGAGGGAGGCCATCGGACTTCTACCTGTGCTCTGCTGGCCAGCGGCACCGCAGCCCTG
 GCCTGTGCTTCTGGGGTACCGTGGACCGATTGGCCGCGGGGCATCCTTCTCTCCATGACCC
 TTACCGGCATTGCTTCCCTGGTCTGCTGGGCTGTGGGATTATCTGAACGAGGCTGCCATCACCCTTT
 CTCTGTCTTGGGCTCTTCTCCTCCAAGCTGCCGCCATCCTCAGCACCCCTCTTGTCTGAGGTCATC
 CCCACCACTGTCCGGGGCGTGGCCTGGCCTGATCATGGCTCTAGGGGCGCTTGGAGGACTGAGCGGCC
 CGGCCAGCGCCTCCACATGGGCCATGGAGCCTTCTGCAGCACGTGGTCTGGCGGCTGCGCCCTCCT
 CTGCATTCTCAGCATTATGCTGCTGCCGGAGACCAAGCGCAAGCTCCTGCCCGAGGTGCTCCGGGACGGG
 GAGCTGTGTCGCCGGCCTTCCCTGCTGCGGCAGCCACCCCTACCGCTGTGACCACGTCCCGCTGCTTG
 CCACCCCAACCCTGCCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214220 representing NM_016609
 Red=Cloning site Green=Tags(s)

MASDPIFTLAPPLHCHYGAFPPNASGWEQPPNASGVSVASAALAASAASRVATSTDPSCSGFAPPDFNHC
 LKDWDYNGLPVLTNAIGQWDLVCDLWQVILEQILFILGFASGYLFLGYPADRFRRRGI VLLTLGLVGP
 CGVGGAAAGSSTGVMALRFLLGFLLAGVDLGVYLMRLELCDPTQRLRVALAGELVGVGGHFLFLGLALVS
 KDWRFLQRMITAPCILFLFYGWPLFLESARWLVKRQIEEAQSVLRILAERNRPHGQMLGEEAQEALQD
 LENTCPLPATSSFASLLNRYRNIWKNLLILGFTNFIAHAIRHCYQPVGGGGSPSDFYLCSSLASGTAAL
 ACVFLGVTVDRFGRRGILLLSMTLTGIASLVLLGLWDYLNEAIIITFSVLGLFSSQAAAILSTLLAAEVI
 PTTVRGRGLGLIMALGALGGLSGPAQRLHMGHGAFLQHVLAACALLCILSIMLLPETKRKLLPEVLRDG
 ELCRRPSLLRQPPPTRCDHVPLLATPNPAL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_016609
ORF Size:	1560 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:	<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_016609.4 , NP_057693.3
RefSeq Size:	2344 bp
RefSeq ORF:	1563 bp
Locus ID:	51310
UniProt ID:	Q8WUG5
Cytogenetics:	14q11.2
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]