

## Product datasheet for **MG204511**

### Slc22a17 (BC062878) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a17 (BC062878) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc22a17
Synonyms:	mBOCT, BOIT, Boct
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204511 representing BC062878 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCAGACCCCATCTTCACGCTGGCGCCCCGCTGCACTGCCACTACGGCGCCTTGCCCCCAACG  
CTTCGGGCTGGGAGCAGCCCCCACTCCAGCGCGTCAGTGTGCGCGGCGGGCCCTAGCAGCCAGCGC  
CGCCAGCGGAGTCGTACCAGTACGGACCCTCGTGCAGTGGCTTCGCCCCACCAGACTTCAACCACTGC  
CTGAAGGACTGGGACTATAACGGACTGCCCGTGTCTACCACCAATGCCATCGGCCAGTGGGATCTGGTGT  
GTGACCTGGGCTGGCAGGTGATCCTGGAGCAGATCCTTTCATCTGGGCTTTGCCTCCGGCTACCTGTT  
CCTCGGTTACCCCGGGACAGGTTTGGCCGTCGTGGGATTGTGCTGCTGACCTTGGGGCTTGTGGGTCCC  
TGTGGAGTGGGAGGAGCTGCTGCAGGCTCCTCTACAGGCATTATGGCTCTTCGGTTTCTCCTGGGCTTCC  
TGCTAGCTGGTGTGACCTTGGTGTCTACCTGATGCGCCTGGAGCTGTGCGACCCAACCCAGAGGCTTCG  
GGTGGCCCTGGCAGGGGAGTTGGTAGGGGTGGGAGGGCACTTCTGTTCCTGGGCTGGCCCTTGTCTCT  
AAGGACTGGCGATTTCTACAGCGAATGATCACCCTCCCTGCATCCTCTTCTGTTTTATGGCTGGCCTG  
GTCTGTTTCTGGAGTCTGCACGGTGGCTGATAGTGAAGCGGCAGATTGAGGAAGCCAGTCTGTGCTGAG  
GATCCTGGCTGAGCGAAACCGCCCCATGGGCAGATGCTGGGAGAAGAGGCCAGGAAGCTTTCAGGAA  
CTGGAGAATACCTGTCTCTCCCTGCAAGTCCACCTTTTCCTTTGCGTCCCTCCTCAACTACCGCAACA  
TCTGAAAAATCTGCTTATCCTGGGCTTACCAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204511 representing BC062878  
Red=Cloning site Green=Tags(s)

MASDPIFTLAPPLHCHYGALPPNASGWEQPPNSSGVSVAGAALAASAASGVVTSTDPSCSGFAPPDFNHC  
 LKDWDYNGLPVLTTNAIGQWDLVCDLGWQVILEQILFILGFASGYLFLGYPADRFRRGI VLLTLGLVGP  
 CGVGGAAAGSSTGIMALRFLGLFLLAGVDLGVYLMRLELCDPTQRLRVALAGELVGVGGHFLFLGLALVS  
 KDWRFLQRMITAPCILFLFYGWPGLFLESARWLVKVRQIEEAQSVLRILAERNRPHGQMLGEEAQEALQE  
 LENTCPLPATSTFSFASLLNYRNIWKNLLILGFTK

TRTRPLE - GFP Tag - V

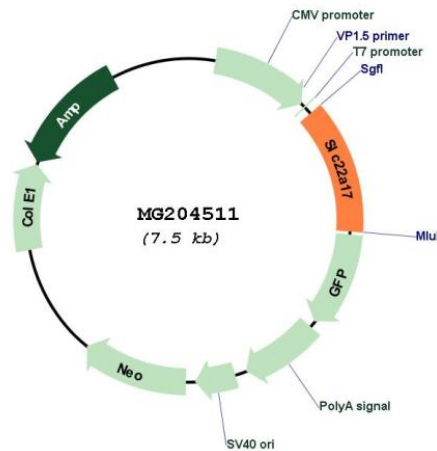
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** BC062878

**ORF Size:** 945 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC062878.1</a>
<b>RefSeq Size:</b>	2323 bp
<b>RefSeq ORF:</b>	947 bp
<b>Locus ID:</b>	59049
<b>Cytogenetics:</b>	14 C2
<b>Gene Summary:</b>	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]