

Product datasheet for **SC112817**

BIGM103 (SLC39A8) (NM_022154) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BIGM103 (SLC39A8) (NM_022154) Human Untagged Clone
Tag:	Tag Free
Symbol:	BIGM103
Synonyms:	BIGM103; CDG2N; LZT-Hs6; PP3105; ZIP8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112817 sequence for NM_022154 edited (data generated by NextGen Sequencing)

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ATGGCCCCGGGTGCGCGGTGGCCGGGCTCCTGTTGCTGGCGCCGCCGGCCTCGGAGGA
GTGGCGGAGGGGCCAGGGCTAGCCTTCAGCGAGGATGTGCTGAGCGTGTTCGGCGCGAAT
CTGAGCCTGTGCGCGGCGCAGCTCCAGCACTTGTGGAGCAGATGGGAGCCGCTCCCGC
GTGGCGGTCCCGGAGCCTGGCCAGCTGCACTTCAACCAGTGTTAACTGCTGAAGAGATC
TTTTCCCTTCATGGCTTTTCAAATGCTACCCAAATAACCAGCTCCAAATCTCTGTCATC
TGTCAGCAGTCTTACAGCAATTGAACTTTCACCCATGTGAGGATCGGCCAAGCACAAA
ACAAGACCAAGTCATTACAGAAAGTTGGGGATATGGATTCTGTGAGTACGATTATTAAT
CTGGCATCTCTCCTCGGATTGATTTGACTCCACTGATAAAGAAATCTTATTTCCCAAAG
ATTTTGACCTTTTTGTGGGGCTGGCTATTGGGACTCTTTTTTCAAATGCAATTTTCCAA
CTTATTCCAGAGGCATTTGGATTTGATCCCAAAGTCGACAGTTATGTTGAGAAGGCAGTT
GCTGTGTTTGGTGGATTTACTACTTTTTCTTTTTGAAAGAATGCTAAAGATGTTATTA
AAGACATATGGTCAGAATGGTCATACCCACTTTGAAATGATAACTTTGGTCCTCAAGAA
AAAACATCAACCTAAAGCATTACCTGCCATCAATGGTGTGACATGCTATGCAAATCCT
GCTGTACAGAAGCTAATGGACATATCCATTTGATAATGTCAGTGTGGTATCTCTACAG
GATGGAAGAAAAAGAGCCAAGTTCATGTACCTGTTTGAAGGGGCCAAACTGTCAGAAATA
GGGACGATTGCCTGGATGATAACGCTCTGCGATGCCCTCCACAATTTTCATCGATGGCCTG
GCGATTGGGGCTTCTGCACCTTGTCTCTCCTTCAGGGACTCAGTACTTCCATAGCAATC
CTATGTGAGGAGTTTCCACAGGTTAGGAGACTTTGTGATCCTACTCAATGCAGGGATG
AGCACTCGACAAGCCTTGTCTTCAACTTCTTCTGTCATGTTCTGCTATGTTGGGCTA
GCTTTTGGCATTTTGGTGGGCAACAATTCGCTCCAAATATTATTTGCACTTGTCTGGA
GGCATGTTCTCTATATTTCTCTGGCAGATATGTTTCCAGAGATGAATGATATGCTGAGA
GAAAGGTAAGTGAAGAAAAACCGATTTACCTTCTTCATGATTCAGAATGCTGGAATG
TTAACTGGATTACAGCCATTCTACTATTACCTTGTATGCAGGAGAAATCGAATTGGAG
TAA
    
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Clone variation with respect to NM_022154.5

5' Read Nucleotide Sequence: >OriGene 5' read for NM_022154 unedited

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GGTTTCGGGATTTGTATACGACTCACTTAGGGCGGCNCGCGATTTCGGCACCAGCCGGAGC
GGATCGCGGAGTTTACC CGCGGACTGTGAGAGATACAGAGGTTGTGGGGCGGGAGACA
GAAAGAGAGAGAGATCCAGAGACCGAGTCTTACGTTGACACGCAGAGAGAAAGACGCAGA
GACAGACAAAACAGATAGGAGAGGCTCTCCAGGAGGCCGGGGGGCCCACTCCGCCTA
TCGCTCCCCTCGGCTACGCTGCCACTTCAATGCCCCGAGGTGCGGAGCTGCTGTTCTTT
CGAAGGCGTCGGAGAACCAGGGGCGTCCGCGCCACCTTGACTCGGAGCAGCGCCGAGC
ACTGACGCTCCCGCCCTTGGGCAAGGACGCCAGTGCGCCCGCGCGTCCCTCTGCGCGG
CAGCCCCGTGCGGGCCCTCAAGGGGAAGCCAGCCAGGATGGCCCCGGTTCGCGCGGTG
GCCGGGCTCCTGTTGCTGGCGGCGCGCCCTCGGAGGAGTGGCGGAGGGCCAGGGCTA
GCCTTCAGCGAGGATGTGCTGAGCGTGTTCGGCGCAATCTGAGCCTGTGCGCGGCGAG
CTCCAGCACTTGTGAGCAGATGGGAGCCGCTCCCGCGTGGGCGTCCCGGAGCCTGGC
CAGCTGCACTTCAACCAGTGTTAACTGCTGAAGAGATCTTTCCCTTCATGGCTTTTCA
AATGCTACCCAAATAACCAGCTCCAAATCTCTGTGATCTGTCCAGCAGTCTTACAGCAA
TTGGAATTTACCCATGGTGGAGATCGGCNCCAAGCACANACAAGACCAAGTCATTCA
GAAAGTTTGGNGATATTNATTCCTGTGAGTACGATTATTAATCTGGCATCTCTCCTCGG
ATGGATTTTACTCCACTGATAAGAAATACTATTTCCCAAGATTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022154 unedited NAGCTTGAACCCGGCCGAATCTANGATCGGTTTTTTTTTTTTTTTTTTGGTTTCAAAG GTGTTTACTATTTGGCCAAACAATTTTTTAAATTGTCAGTCATAAAGTAAATACATAC TAAATATATATTAATATTCACCAAATCTGCATTGCTGCTACATGAAAACATTTTTGG TCTGTTGAAAAATGTAATTCCTGAGATCATTGTTGGGCTTTGTCAATCATTTTCTCACC ATCAAATCACCTTAAGTGACTTGGGAGTGTGAATCTAGGATGTTCAATTTTAGACCAATT TTCTCTATCTTTAAATGAGTAAACAGGCTCTGTCTTTTATAAAAGGTAGAAAAATAACC ATGGTGTGCTAATTTTTTCAAGGTATACCATATGGAAAAGTATAGGCTGAACACAAAGG AAGTCTTTTCTGAATGGCTCTCGATCACACATAAGGAACATATGTTTTCCAGTTAATCTG TCCTTGATGTACAGCAGTCCAGCTGTTGTTTTGCATTTATTAATAATTCTCTGTAAT AGTTATGTTTGTCTTTAAAAGTAAATTGCATAAAATTACATCCAATTTCTTTCTAAAC CAACATATTCTTACCTTCAAAAGCAAACACATGGTGCCTGAAACCGNAGGTGTACCA GCTTTACATACTGTTCTGCCATTTGTGAGGGGGCACCCCAACATAAGTCAAAAAAAG CTTTCCGCTTTTTCGGGAAACTGGGGAAGTTATACTTAGCGATAAGCCTTTAACCTGA ACTTTACAGGGCTAGCAAACCTTATTTATTTCTAACCTCTTTTATTTAAAAGGGTTCC CAAAAAAACCTGCAGGTCCAATTGGAATCCAACAAAACAAAAGCTGTGAAAAATCTT TTTTCTTTGCCTCTTTAAGACTTGAATATTC
Restriction Sites:	NotI-NotI
ACCN:	NM_022154
Insert Size:	3260 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_022154.5</u> , <u>NP_071437.3</u>
RefSeq Size:	3309 bp
RefSeq ORF:	1383 bp
Locus ID:	64116
UniProt ID:	<u>Q9C0K1</u>
Cytogenetics:	4q24
Domains:	Zip
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a member of the SLC39 family of solute-carrier genes, which show structural characteristics of zinc transporters. The encoded protein is glycosylated and found in the plasma membrane and mitochondria, and functions in the cellular import of zinc at the onset of inflammation. It is also thought to be the primary transporter of the toxic cation cadmium, which is found in cigarette smoke. Multiple transcript variants encoding different isoforms have been found for this gene. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Oct 2008]

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