

Product datasheet for **SC320928**

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: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_022154.5
 CCGCGGACCTGTCAGAGATACAGAGTTGTGGGGCGGGAGACAGAAAGAGAGAGATC
 CAGAGACCGAGTCTTACGTTGACACGACGAGAGAAAGACGACAGACAGACAAACAACA
 GATAGGAGAGGCTCTCCAGGAGGCCGGGGGCCACTCCGCTATCGCTCCCCTCGGCTA
 CGCTGCCACTTCAATGCCCGCAGGTCGCGAGCTGCTGTTCTTTTGAAGCGTCGGAGAA
 CCAGGGGCGTCCCGGCCACCTCTGACTCGGAGCAGCGCCGAGCACTGACGCTCCCGCCC
 TTGGGCAAGGACGCCAGTGCGCCGCGCGCTCCCTCTGCGCGGCAGCCCGTCCGGGGCC
 CTCAAGGGGAAGCCAGGCCAGGATGGCCCGGGTCCGCGGGTGGCCGGGCTCCTGTTGC
 TGGCGGCCCGGCTCGGAGGAGTGGCGGAGGGGCCAGGGCTAGCCTTCAGCGAGGATG
 TGCTGAGCGTGTTCGGCGGAATCTGAGCCTGTGCGCGGCAGCTCCAGCACTTGCTGG
 AGCAGATGGGAGCCGCTCCCGCTGGGCGTCCCGGAGCCTGGCCAGCTGCACTTCAACC
 AGTGTTTAACTGCTGAAGAGATCTTTCCCTTCATGGCTTTTCAAATGCTACCCAAATAA
 CCAGCTCCAAATTCTGTGCATCTGTCCAGCAGTCTTACAGCAATTGAACTTTCACCCAT
 GTGAGGATCGGCCAAGCACAAAACAAGACCAAGTCATTACAGAAAGTTGGGGATATGGAT
 TCCTGTCAGTGACGATTATTAATCTGGCATCTCTCCTCGGATTGATTTTGACTCCACTGA
 TAAAGAAATCTTATTTCCAAAGATTTTGACCTTTTTTGTGGGCTGGCTATTGGGACTC
 TTTTTTCAAATGCAATTTTCCAATTATCCAGAGGCATTTGGATTTGATCCCAAAGTCG
 ACAGTTATGTTGAGAAGGCAGTTGCTGTGTTTGGTGGATTTTACCTACTTTTTCTTTTTG
 AAAGAATGCTAAAGATGTTATTAAGACATATGGTCAGAATGGTCATACCCACTTTGGAA
 ATGATAACTTTGGTCTCAAGAAAAAACTCATCAACCTAAAGCATTACCTGCCATCAATG
 GTGTGACATGCTATGCAATCCTGCTGTACAGAAGCTAATGGACATATCCATTTTGATA
 ATGTCAGTGTGGTATCTCTACAGGATGGAAAAAAGAGCCAAGTTCATGTACCTGTTTGA
 AGGGGCCCAAAGTGCAGAAATAGGGACGATTGCCTGGATGATAACGCTCTGCGATGCC
 TCCACAATTTTCATCGATGGCCTGGCGATTGGGGCTTCTGCACCTTGCTCTCCTTCAGG
 GACTCAGTACTTCCATAGCAATCCTATGTGAGGAGTTTCCCACGAGTTAGGAGACTTTG
 TGATCCTACTCAATGCAGGGATGAGCACTCGACAAGCCTTGCTATTCAACTTCCTTTCTG
 CATGTTCTGCTATGTTGGGCTAGCTTTTGGCATTTTGGTGGGCAACAATTCGCTCCAA



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ATATTATATTTGCACTTGCTGGAGGCATGTTCTCTATATTTCTCTGGCAGATATGTTTC
 CAGAGATGAATGATATGCTGAGAGAAAAGGTAAGTGAAGAAAAACCGATTTACACCTTCT
 TCATGATTCAGAATGCTGGAATGTTAACTGGATTCACAGCCATTCTACTACCTTGT
 ATGCAGGAGAAATCGAATTGGAGTAATAGAAAATGGAAGATGGTGTGTTAATAAAGGCA
 TTTAATAGATAAAAACATCTCCAAAAGGATTTGAAGCTGATCCTATTTAGTTAAAAAG
 ATAATTTTGCTTTCAACCGTAGGTCCAGAAAATAATTATTGGCATCAGTCTGTGAAATA
 GTCCATTATTTGTTGTTAAAAATGCTTCAAAGGTTTTTCAGTGTGAGTCTGAGATGCCTG
 GTATATAGGAGCCTTTGGGAAATACCTATTTTTTCAGTATCCATGCATATTGGATATCAC
 CATGAAGCAAGAGACATGCATTCTATAATCATGTAGACTCAGACTCAGGGGAAAAATAC
 AAGTTATATCCTGAAAGCCTTTAAACTCTATGGTAGGATCAAAGATTCAAATGGTTTCA
 GAGAGTTTTTATTTCAATTAATTTGTTCTAGTGTCTTCAAGAGCAAGTACATCAAATGT
 AGAAGGTAATGTATGCAACACTAATAAATATTCCAAGTCTTAAAGGACCAAAGA
 AAAAAAGATTTCTCACAGCTTTTTGTTCTGTTTGTATTTCAATTAGGAACTTGCAGTA
 TTATTTTGAACCATTCTAAAAATAATAGGAGTTAGGAAATAAATAAAGTTTTGCTAGCC
 CTGCTAAGTTCAGGCTTAGAGGCTTATCGCTAAGTGTAACTTACCAGATTCCACGAAA
 AGCTGGATAGCTTTTTTCTGACTTATGTTGTGGTTGCACCCCTCACAAATGGCAGAACA
 GTATGTAAGCTGGTAACACCTCGGTTTCAGTGCACCATGTGTTTGTGTTGTAAGGTGA
 AGAATATGTTGGTTAGAGAAAGAAATTGGATGTAATTTTATGCAATTTACTTTTAAAGA
 CAAACATAACTATTTAGCAGAGAATATTTAATAAATGCAAAAACAACAGCTGGACTGCTG
 TACATCAAGGACAGATTAAGTGGAAAACATATGTTCTTATGTGTGATTGAGAGCCATTC
 AGAAAAGACTTCTTTGTGTTTTCAGCCTATACTTTTCCATATGGTATACCTTGAAAAAAT
 TAGCACACCATGGTTATTTTCTACCTTTTATAAAGACAGAGCCTGTTTACTCATTAG
 AAGATAGAGAAAATTGGCTAAAATTGAACATCCTAGATTACACTCCCAAGTCACTTAA
 GGTGATTTGATGGTGAGGAAAATGATTGACAAAGCCCAACAATGATCTCAGGAATTACAT
 TTTCCAACAGACCAAAAAATGTTTTATGTAGCAGCAATGCAGATTTGGTGAATATTTAA
 TATATATTTAGTATGTATTTCACTTTATGACTGACAATAAAAAATATTGTTTGGCCAA
 ATAGTAAACACCTTTTGAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_022154

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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

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_022154.5](#), [NP_071437.3](#)

RefSeq Size: 3309 bp

RefSeq ORF: 1383 bp

Locus ID: 64116

UniProt ID: [Q9C0K1](#)

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).