

## Product datasheet for **SC325931**

### **BIGM103 (SLC39A8) (NM\_001135147) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BIGM103 (SLC39A8) (NM_001135147) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC39A8
Synonyms:	BIGM103; CDG2N; LZT-Hs6; PP3105; ZIP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325931 representing NM_001135147. Blue=Insert sequence Red=Cloning site Green=Tag(s)

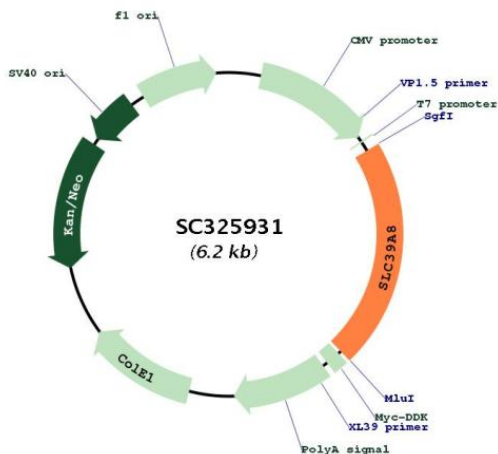
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_001135147

Insert Size: 1335 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).

**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\\_001135147.1](#)

RefSeq Size: 4098 bp

RefSeq ORF: 1335 bp

Locus ID: 64116

UniProt ID: [Q9C0K1](#)

**Cytogenetics:** 4q24

**Protein Families:** Transmembrane

**MW:** 48.1 kDa

**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 (3) differs in the 5' UTR and contains additional coding exons in the 3' CDS, compared to variant 1. The resulting protein (isoform b) has a shorter and distinct C-terminus, compared to isoform a.