

Product datasheet for **RG225601**

BIGM103 (SLC39A8) (NM_001135148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BIGM103 (SLC39A8) (NM_001135148) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC39A8
Synonyms:	BIGM103; CDG2N; LZT-Hs6; PP3105; ZIP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225601 representing NM_001135148 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACCAACACGCTCAGTGTAACTGCTGAAGAGATCTTTCCCTTCATGGCTTTCAAATGCTACCC
AAATAACCAGCTCCAATTCTCTGTCTGTCCAGCAGTCTTACAGCAATTGAACTTTACCCCATGTGA
GGATCGGCCCAAGCACAAAACAAGACCAAGTCATTAGAAAGTTGGGGATATGGATTCTGTGAGTACG
ATTATTAATCTGGCATCTCTCCTCGGATTGATTTGACTCCACTGATAAAGAAATCTTATTTCCAAAGA
TTTTGACCTTTTTGTGGGGCTGGCTATTGGGACTCTTTTTCAAATGCAATTTCCAATTATTCCAGA
GGCATTGGATTGATCCAAAGTCGACAGTTATGTTGAGAAGGCAGTTGCTGTGTTGGTGGATTTTAC
CTACTTTCTTTTTGAAAGAATGCTAAAGATGTTATTAAGACATATGGTCAGAATGGTCATACCCACT
TTGAAATGATAACTTTGGTCTCAAGAAAAAAGTCACTCAACCTAAAGCATTACCTGCCATCAATGGTGT
GACATGCTATGCAATCCTGCTGTACAGAAAGCTAATGGACATATCCATTTTGATAATGTGAGTGGTA
TCTCTACAGGATGGAAAAAAGAGCCAAGTTCATGTACCTGTTTGAAGGGGCCAAAAGTGCAGAAATAG
GGACGATTGCCTGGATGATAACGCTCTGCGATGCCCTCCACAATTCATCGATGGCCTGGCGATTGGGGC
TTCTGCACCTTGTCTCTCCTCAGGACTCAGTACTTCCATAGCAATCCTATGTGAGGAGTTTCCAC
GAGTTAGGAGACTTTGTGATCCTACTCAATGCAGGGATGAGCACTGCACAAGCCTTGCTATTCAACTTC
TTCTGCATGTTCTGCTATGTTGGGCTAGCTTTTGGCATTGTTGGTGGCAACAATTTGCTCCAAATAT
TATATTTGCACCTGCTGGAGCATGTTCTCTATATTTCTCTGGCAGATATGTTCCAGAGATGAATGAT
ATGCTGAGAGAAAAGTAACTGGAAGAAAAACCGATTTACCTTCTTCATGATTCAGAATGCTGGAATGT
TAACTGGATTCACAGCCATTCTACTCATTACCTTGATGCAGGAGAAATCGAATTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225601 representing NM_001135148
 Red=Cloning site Green=Tags(s)

MHQHAQCLTAEEIFSLHGFSNATQITSSKFSVICPAVLQQLNFHPCEDRPHKTRPSHSEVWGYGFLSVT
 IINLASLLGLILTPLIKKSYFPKILTFVGLAIGTLFSNAIFQLIPEAFGDPKVDSEYKAVAVFGGFY
 LLFFFERMLKMLLKTYGQNGHTHFGNDNFGPQEKTHQPKALPAINGVTTCYANPAVTEANGHIHFDNVSVV
 SLQDGKKEPSSCTCLKGPKLSEIGTIAWMITLCDALHNFIDGLAIGASCTLSLLQLLSTSIAILCEEFPH
 ELGDFVILLNAGMSTRQALLFNFLSACSCYVGLAFGILVGNFAPNIIFALAGGMFLYISLADMFPPEMND
 MLREKVTGRKTDFTFFMIQNAGMLTGFTAILLITLYAGEIELE

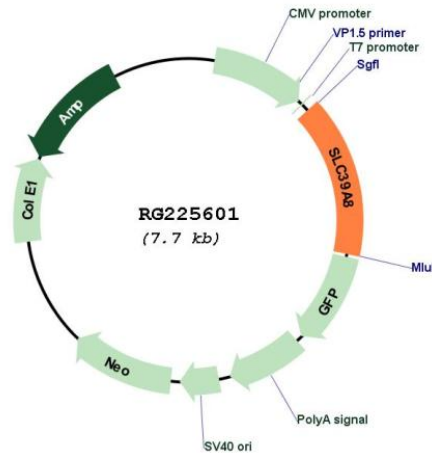
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001135148

ORF Size:	1179 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_001135148.1 , NP_001128620.1
RefSeq Size:	2624 bp
RefSeq ORF:	1182 bp
Locus ID:	64116
UniProt ID:	Q9C0K1
Cytogenetics:	4q24
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]