

## Product datasheet for **RG216002**

### SLC25A33 (NM\_032315) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A33 (NM_032315) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC25A33
Synonyms:	BMSC-MCP; PNC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216002 representing NM_032315 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGACGGGCGCCAGCAGAAGGAGAACACGCTGCTTCACCTCTTCGCCGGCGGGTGTGGAGGCACAG  
TTGGTGTATTTCACTTGCCACTAGAAGTCATTAAGACACGGTTCAGTCTTCAAGATTAGCTCTCCG  
GACAGTCTACTATCCTCAGGTTTCATCTGGGGACCATTAGTGGAGCTGGAATGGTGAACCAACATCCGTG  
ACACCTGGACTCTTTCAGGTTCTGAAGTCGATCTTGGAGAAAGAGGGACCAAAGTCACTTTTAGAGGCT  
TGGGTCCAAATTTGGTTGGAGTGCACCATCAAGGGCTGTATACTTTGCATGTTACTCCAAGCCAAAGA  
GCAATTTAATGGCATTTTCGTGCCTAACAGCAATATTGTGCATATTTCTCAGCTGGCTCTCGAGCTTTT  
ATCACAAATTCCTTAATGAATCCTATATGGATGGTAAAACCCGAATGCAGCTAGAACAGAAAGTGAGGG  
GCTCTAAGCAGATGAATACACTCCAGTGTGCTCGTTACGTTTACCAGACCGAAGGCATTCGTGGCTTCTA  
TAGAGGATTAAGTGCCTCGTATGCTGGAATTTCCGAACTATAATCTGCTTTGCTATTTATGAAAGTTTA  
AAGAAGTATCTGAAAGAAGCTCCATTAGCCTCTTCTGCAATGGGACTGAGAAAAATCCACAAGTTTTT  
TTGGACTTATGGCAGCTGCTGCTTTTCTAAGGGCTGTGCCTCCTGCATTGCTTATCCACACGAAGTCAT  
AAGGACGAGGCTCCGGGAAGAGGGCACCAAGTACAAGTCTTTTGTCCAGACGGCGCCTGGTGTCCGG  
GAAGAAGGCTACCTTGCCCTTTATAGAGGACTGTTTGCCAGCTTATCCGGCAGATCCCAATACTGCCA  
TTGTGTGTCTACTTATGAGTTAATTGTGTACCTGTTAGAAGACCGTACTCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG216002 representing NM\_032315  
 Red=Cloning site Green=Tags(s)

MATGGQKENTLLHLFAGGCGTVGAIFTCPLEVIKTRLQSSRLALRTVYYPQVHLGTISGAGMVRPTSV  
 TPGLFQVLKSIKEGPKSLFRGLGNLVGVAPSRVYFACYSKAKEQFNGIFVPNSNIVHIFSAGSAAF  
 ITNSLMNPIWMVKTRMQLEQKVRGSKQMNLTQCARYVYQTEGIRGFYRGLTASYAGISETIICFAIYESL  
 KKYLKEAPLASSANGTEKNSTFFGLMAAAALSKGCASCIAYPHEVIRTRLREEGKYKSFVQTARLVFR  
 EEGYLAFYRGLFAQLIRQIPNTAIVLSTYELIVYLLLEDRTQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032315

**ORF Size:** 963 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:**

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\\_032315.3](#)

**RefSeq Size:** 1482 bp

**RefSeq ORF:** 966 bp

**Locus ID:** 84275

**UniProt ID:** [Q9BSK2](#)

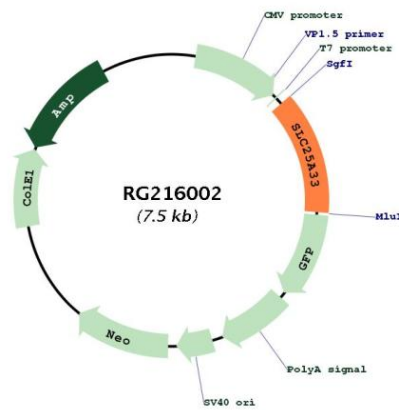
**Cytogenetics:** 1p36.22

**Domains:** mito\_carr

**Protein Families:** Transmembrane

**Gene Summary:** SLC25A33 belongs to the SLC25 family of mitochondrial carrier proteins (Haitina et al., 2006 [PubMed 16949250]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RG216002