

## Product datasheet for **RG217638**

### OST beta (SLC51B) (NM\_178859) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** OST beta (SLC51B) (NM\_178859) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** OST beta  
**Synonyms:** OSTB; OSTBETA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG217638 representing NM\_178859  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGAGCACAGTGAGGGGCTCCCGGAGACCCAGCCGGTACTGTGGTACCCAGGAGCTGCTGGAAGAGA  
 TGCTTTGGTTTTTTCGTGTGGAAGATGCATCTCCCTGGAATCATTCCATCCTTGCCTGGCAGCTGTGGT  
 GGTCATTATAAGCATGGTCCTCCTGGGAAGAAGCATCCAGGCAAGCAGAAAAGAAAAGATGCAGCCACCA  
 GAAAAAGAACTCCAGAAGTCTGCATTTGGATGAGGCCAAGGATCACACAGCCTAAACAACCTAAGAG  
 AAACCTTGCTCTCAGAAAAGCCAACTTGGCCAGGTGGAACCTGAGTTAAAAGAGAGAGATGTGCTGTC  
 AGTTTTCTTCCGGATGTACCAGAACTGAGAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG217638 representing NM\_178859  
 Red=Cloning site Green=Tags(s)  
 MEHSEGAPGDPAGTVVPQELLEMLWFFRVEDASPNHSLALAAVVVIISMVLLGRSIQASRKEKMQPP  
 EKETPEVLHLDEAKDHNSLNNLRETLLSEKPNLAQVELELKERDVLVFLPDVPETES

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI


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## Cloning Scheme:



ACCN: NM\_178859

ORF Size: 384 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_178859.4](#)

**RefSeq Size:** 454 bp

**RefSeq ORF:** 387 bp

**Locus ID:** 123264

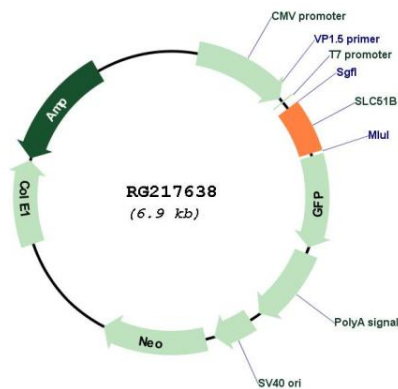
**UniProt ID:** [Q86UW2](#)

**Cytogenetics:** 15q22.31

**Protein Families:** Transmembrane

**Gene Summary:** Essential component of the Ost-alpha/Ost-beta complex, a heterodimer that acts as the intestinal basolateral transporter responsible for bile acid export from enterocytes into portal blood. Efficiently transports the major species of bile acids. Modulates SLC51A glycosylation, membrane trafficking and stability activities.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG217638