

Product datasheet for RC219313

OSTA (SLC51A) (NM_152672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSTA (SLC51A) (NM_152672) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OSTA
Synonyms:	OSTA; OSTalpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219313 representing NM_152672 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGGCAGGACCCAGATAAAGCTTGACCCAGGTACACAGCAGATCTTCTGGAGGTGCTGAAGA
CCAATTACGGCATCCCCTCCGCCTGCTTCTCTCAGCCTCCACAGCAGCCCAACTCTGAGAGCCCTGGG
CCCTGTGGAAGTGGCCCTCACTAGCATCCTGACCTTGCTGGCGCTGGGCTCCATTGCCATCTTCTGGAG
GATGCCGTCTACCTGTACAAGAACCCTTTGCCCATCAAGAGGCGGACTCTGCTCTGGAAGAGCTCGG
CACCCACGGTGGTGTCTGTGCTGTGCTGCTTTGGTCTCTGGATCCCTCGTCCCTGGTGTGGTGGAAAT
GACCATCACCTCGTTTTATGCCGTGTGCTTTACCTGCTGATGCTGGTCAATGGTGAAGGCTTTGGGGGG
AAGGAGGCAGTGTGAGGACGCTGAGGGACACCCCGATGATGGTCCACACAGGCCCTGCTGCTGCTGCT
GCCCTGCTGTCCACGGCTGCTGCTCACCAGGAAGAAGCTTCAGCTGCTGATGTTGGGCCCTTTCCAATA
CGCCTTCTGAAGATAACGCTGACCCTGGTGGGCTGTTTCTCATCCCCGACGGCATCTATGACCCAGCA
GACATTTCTGAGGGGAGCACAGCTCTATGGATCAACACTTTCTCGGCGTGTCCACACTGCTGGCTCTCT
GGACCTGGGCATCATTCCCCTCAAGCCAGGCTACACCTGGGTGAGCAGAACATGGGAGCCAAATTTGC
TCTGTTCCAGGTTCTCCTCATCTGACTGCCCTACAGCCCTCCATCTTCTCAGTCTTGGCCAACGGTGGG
CAGATTGCTTGTTCGCCTCCCTATTCCTCTAAAACCAGGTCTCAAGTGATGAATTGCCACCTCCTCATA
TGGAGACTTTTCTAATGACTGTGCTGACACGAATGTACTACCGAAGGAAAGACCACAAGGTTGGGTATGA
AACTTTCTCTTCTCCAGACCTGGACTTGAACCTCAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219313 representing NM_152672
Red=Cloning site Green=Tags(s)

MEPGRTQIKLDPRYTADLLEVLKTNYGIPSACFSQPPTAAQLLRALGPVELALTSILTLLALGSIIFLE
 DAVLYLKNTLCPIKRRTLLWKSSAPT VVSVLCCFGLWIPRSLVLEMTITSFYAVCFYLLMLVMVEGFGG
 KEAVLRTLRTDTPMMVHTGPCCCCPCCPRLLL TRKKLQLLMLGPFQYAFKKITLTLVGLFLIPDGIYDPA
 DISEGSTALWINTFLGVSTLLALWTLGIISRQARLHLGEQNMGAKFALFQVLLILTALQPSIFSVLANGG
 QIACSPPYSSKTRSQVMNCHLLILETFLMTVLTRMYRRKDHKVG YETFS SPDLDLNLKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6108_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152672

ORF Size: 1020 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_152672.6](#)

RefSeq Size: 1476 bp

RefSeq ORF: 1023 bp

Locus ID: 200931

UniProt ID: [Q86UW1](#)

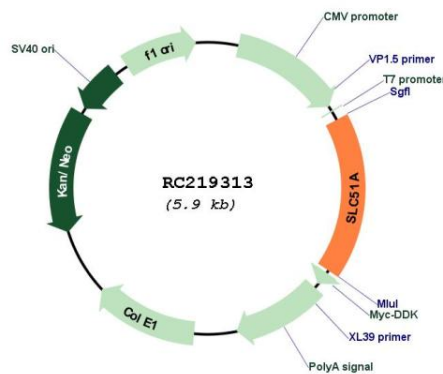
Cytogenetics: 3q29

Protein Families: Transmembrane

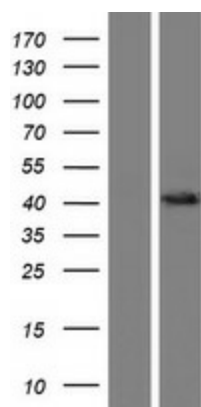
MW: 37.6 kDa

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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC219313



Western blot validation of overexpression lysate (Cat# [LY403483]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219313 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).