

Product datasheet for **SC100986**

OSTC (NM_021227) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: OSTC

Synonyms: DC2

Mammalian Cell None

Selection:

Vector: pCMV6-XL4

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF within SC100986 sequence for NM_021227 edited (data generated by NextGen Sequencing)

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ATGGAGACTTTGTACCGTGTCCTTCTTAGTGCTCGAATGTCCCAACCTGAAGCTGAAG
AAGCCGCCCTGGTTGCACATGCCGTCGGCCATGACTGTGTATGCTCTGGTGGTGGTGTCT
TACTTCCTCATCACCGGAGGAATAATTTATGATGTTATTGTTGAACCTCCAAGTTCGGT
TCTATGACTGATGAACATGGGCATCAGAGGCCAGTAGCTTTCTTGGCCTACAGAGTAAAT
GGACAATATATTATGGAAGGACTTGCATCCAGCTTCCTATTACAATGGGAGGTTTAGGT
TTCATAATCCTGGACCGATCGAATGCACCAAATATCCCAAACTCAATAGATTCCTTCTT
CTGTTTCATTGGATTCTGTCTGTCCTATTGAGTTTTTTCATGGCTAGAGTATTCATGAGA
ATGAAACTGCCGGGCTATCTGATGGGTTAG
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Clone variation with respect to NM_021227.2



5' Read Nucleotide Sequence:	>OriGene 5' read for NM_021227 unedited <pre> GGCCGGTCAGCTTTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACCAGGGCGCT TGGGGCTTGAGGCCGAGACGGCCCTTGCTGCCACCAACATGGAGACTTTGTACCGTGTCC CGTTCTTAGTGCTCGAATGTCCCAACCTGAAGCTGAAGAAGCCGCCCTGGTTGCACATGC CGTCGGCCATGACTGTGTATGCTCTGGTGGTGGTGTCTTACTTCCTCATCACCAGGAGAA TAATTTATGATGTTATTGTTGAACCTCCAAGTGTGGTTCATGACTGATGAACATGGGC ATCAGAGGCCAGTAGCTTTCTTGGCCTACAGAGTAAATGGACAATATATTGAAGGAC TTGCATCCAGCTTCTATTTACAATGGGAGGTTTAGGTTTCATAATCCTGGACCGATCGA ATGCACCAATATCCCAAACTCAATAGATTCTTCTCTGTTTCATTGGATTCTGTCTGTG TCCTATTGAGTTTTTTCATGGCTAGAGTATTTCATGAGAATGAACTGCCGGGCTATCTGA TGGGTTAGAGTGCCCTTTGAGAAGAAATCAGTGGATACTGGATTGCTCCTGTCAATGAAG TTNTAAAGGCTGTACCAATCCTCTAATATGAAATGTGGAAAAGAATGAAGAGCAGCAGTA AAAGAAATATCTAGTGAAAAACAGGAAGCGTATTGAAGCTTGACTAGAAATCTTCTT GGTATTAAGAGACAAGTTTATCACAGAATTTTNTTCTGCTGGCCTATTGCTATACC AATGATGNNTGAGTGGCATTNTCTTTTAGTTTTTCATTAATATATTCCATATCTACCA CTATATATCAAATAAAGTGATTATTTTTTACAACCTCCTTACATTTTTTGGAGAGAACT TTCTGATTTTCAGAAATTAACATAA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_021227
Insert Size:	4000 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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_021227.2, NP_067050.1</u>
RefSeq Size:	1103 bp
RefSeq ORF:	450 bp
Locus ID:	58505

UniProt ID: Q9NRPO

Cytogenetics: 4q25

Protein Families: Transmembrane

Gene Summary: Subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation. N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). All subunits are required for a maximal enzyme activity. May be involved in N-glycosylation of APP (amyloid-beta precursor protein). Can modulate gamma-secretase cleavage of APP by enhancing endoproteolysis of PSEN1.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.