

## Product datasheet for MR203900

### 4930579E17Rik (BC096030) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	4930579E17Rik (BC096030) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	4930579E17Rik
Synonyms:	4930579E17Rik; AV040780
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203900 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCTGGGCGTGCAGCAGGCCCGCTGAGCCTGGGCATTGCGTGAGCGGCCCGGGCGCGGGCT  
CAGCGTCCCGGAGTCCCGTTGTCCGTCGCTGGGGCGGAGCCCGGAACCGCCCTGGAACCGTGGCCGC  
CGTGCTGCCGGTGGGGTTGCGGGAAAGGATGGGCGTCCGCACCCGAAGCAGTTCTGCCGGTTCTG  
GAAAGCCGCTCATCAGCTACACTTTCAGGCTATGGAGAGAGTATGCTGGATAAAGGACATTGTTGTGA  
CAGTGACAGGGGAGAACATGGAAGCAATGAGAAGTATCATCCAGAGGTATGGGCATAAGCGCATCTCACT  
AGCTGAGGCTGGAGCCACGCGCCACAGATCAATTTTCAATGGACTGAAAGCCCTGGCAGAAGATCAGCCA  
GACTGTAAACTACTAAGCCAGAAGTGGTGATTATCCATGACGCCGTGAGACCTTTTGTGAGGAAGATA  
TCCTCCTGAGAGTTGTCTTAGCAGCTAAGGAACATGGGGCAGCAGGAGCAATTCGACCTCTGGTGTCCAC  
TGTATCAGTCCCTCTGCTGATGGTCACTTAGACCACTCACTGGACCGTGCACAGCATAGGGCAAGCGAA  
ATGCCCGAGGCTTTTCTTTGATGTCTATGAAGCGTATCAGCAGTGTAGTATTTGACTTGGAAAT  
TTGGAACAGAGTGCTTGCAGTTGGCTCTAAAATACTGTACAGGAAAGCAAACTGTAGAAGGGCCCC  
TGCCCTCTGGAAGGTGACCTACAACAAGACCTGTGTGCAGCTGAAGCCATGATTAAGGTGTGTTCAAC  
CTTGTGACTGTGAGCGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203900 protein sequence  
Red=Cloning site Green=Tags(s)

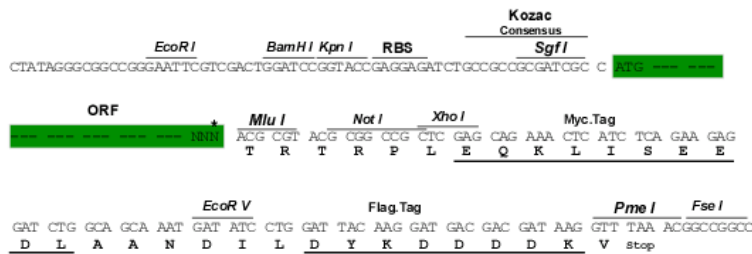
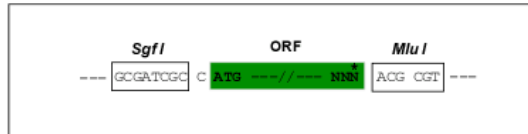
MEPGPCSRPAEPGHCVSGPAGAGSAPFESPLSVAGAEPGNRPGTVAAVLPAGGCGERMGVRTPKQFCRVL  
 ERPLISYTLQAMERVCWIKDIVVTVTGENMEAMRSIIQRYGHKRISLAEAGATRHRSIFNGLKALAEQDP  
 DCKLTKPEVVIHDAVRPFVEEDILLRVVLAKEHGAAGAIRPLVSTVISPADGHLDHSLDRAKHRASE  
 MPQAFLLFDVIYEAYQCSDFLEFGTECLQLALKYCHRKAKLVEGPPALWKVITYKQDLCAAEMIKGVFN  
 LVTVSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC096030

**ORF Size:** 858 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:** [BC096030](#), [AAH96030](#)

**RefSeq Size:** 3142 bp

**RefSeq ORF:** 860 bp

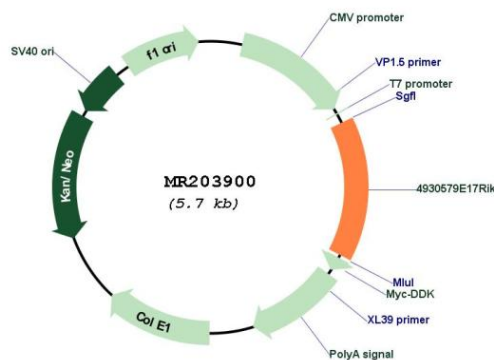
**Locus ID:** 75847

**Cytogenetics:** 12 A3

**MW:** 31 kDa

**Gene Summary:** Cytidylyltransferase required for protein O-linked mannosylation (By similarity). Catalyzes the formation of CDP-ribitol nucleotide sugar from D-ribitol 5-phosphate (By similarity). CDP-ribitol is a substrate of FKTN during the biosynthesis of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity (By similarity). Shows activity toward other pentose phosphate sugars and mediates formation of CDP-ribulose or CDP-ribose using CTP and ribulose-5-phosphate or ribose-5-phosphate, respectively (By similarity). Not Involved in dolichol production (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR203900