

## Product datasheet for **RC200752**

### **C1orf33 (MRTO4) (NM\_016183) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C1orf33 (MRTO4) (NM_016183) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1orf33
Synonyms:	C1orf33; dj657E11.4; MRT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200752 representing NM_016183 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAAATCCAAGCGCGACAAGAAAGTCTCCTTAACCAAACTGCCAAGAAAGGCTTGGAAATGAAAC  
AAAACCTGATAGAAGAGCTTCGGAAATGTGTGGACACCTACAAGTACCTTTTCATCTTCTGTGGCCAA  
CATGAGGAACAGCAAGCTGAAGGACATCCGGAACGCCTGGAAGCACAGCCGGATGTTCTTTGGCAAAAAC  
AAGGTGATGATGGTGGCCTTGGGTGGGAGCCCATCTGATGAATACAAAGACAACCTGCACCAGGTCAGCA  
AAAGTTGAGGGGTGAGGTGGTCTCCTGTTACCAACCGCACAAAGGAAGAGGTGAATGAGTGGTTCAC  
GAAATACACAGAAATGGACTACGCCGAGCTGGTAACAAAGCAGCTTTCCTGTGAGCCTGGATCCAGGG  
CCCCTGGAGCAGTTCCTCCACTCCATGGAGCCACAGCTCAGGCAGCTGGGCTGCCACC GCCCTCAAGA  
GAGGTGTGGTACTCTGCTGTCTGACTACGAGGTGTGCAAGGAGGGCGATGTGCTGACCCAGAGCAGGC  
TCGCGTCTGAAGCTTTTGGGTATGAGATGGCTGAATTC AAGGTGACCATCAAATACATGTGGGATTCA  
CAGTCGGGAAGGTTCCAGCAGATGGGAGACGACTTGCCAGAGAGCGCATCTGAGTCCACAGAAGAGTCAG  
ACTCAGAAGATGATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200752 representing NM\_016183  
 Red=Cloning site Green=Tags(s)

MPKSKRDKKVSLTKTAKGLELQNLIEELRKCVDYKYLFIKSVANMRNSKLDKIRNAWKHSRMFFGKN  
 KVMVMVALGRSPSDEYKDNLHQVSKRLRGEVGLLFTNRTKEEVNEWFTKYTEM DYARAGNKAFTVSLDPG  
 PLEQFPHSMEPQLRQLGLPTALKRGVVTLLSDYEVCKEGDVL TPEQARVLKLFYEMAEFKVTIKYMWDS  
 QSGRFQQMGGDLPEASASESTEESDESDDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1485\\_e04.zip](https://cdn.origene.com/chromatograms/ja1485_e04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_016183

**ORF Size:** 717 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\\_016183.2](#), [NP\\_057267.2](#)

**RefSeq Size:** 2273 bp

**RefSeq ORF:** 720 bp

**Locus ID:** 51154

**UniProt ID:** [Q9UKD2](#)

**Cytogenetics:** 1p36.13

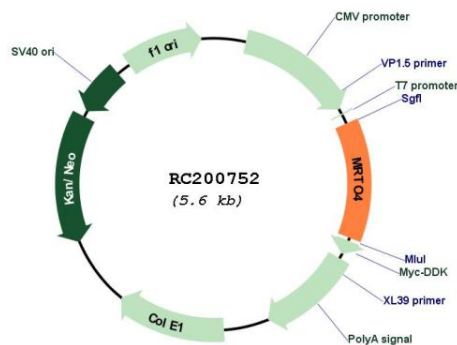
**Domains:** Ribosomal\_L10

**Protein Families:** Druggable Genome

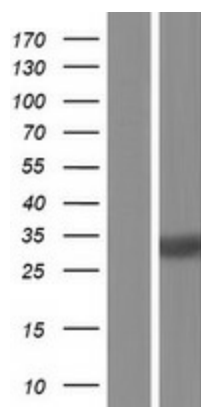
**MW:** 27.4 kDa

**Gene Summary:** This gene encodes a protein sharing a low level of sequence similarity with ribosomal protein P0. While the precise function of the encoded protein is currently unknown, it appears to be involved in mRNA turnover and ribosome assembly. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RC200752



Western blot validation of overexpression lysate (Cat# [LY414139]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200752 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).