

## Product datasheet for RC206178

### C14orf142 (GON7) (NM\_032490) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** C14orf142 (GON7) (NM\_032490) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** C14orf142  
**Synonyms:** C14orf142; PNAS-127  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC206178 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCTGCTGGGAGAGTACGTCTGGGCAGGAAGGAAGCCGAGAAAGCTGCGGGTGTCTGTGAGGCGC  
 CGGGTGACGGCGACCTTTCCAGGGCTGTTGTCTGGCGTGGCCAGATGAAGGACATGGTAACGGAAAT  
 ATTCGACCCTCTGGTACAGGGGAAGTGCAGCACCGGGTGGCGGGCTCCAGACGAGGACTTGGACGGT  
 GATGATGAAGATGATGCAGAAGATGAAAATAACATTGATAACAGAACTAATTTCGATGGACCATCTGCAA  
 AACGGCCAAAAACACCGTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC206178 protein sequence  
 Red=Cloning site Green=Tags(s)  
 MELLGEYVQEGKPQKL RVSCEAPGDGDPFQGLLSGVAQM KDMVTELFDP L VQGEVQHRVAAAPDEDLDG  
 DDEDDAE DENNIDNRTNFDGPSAKRPKTPS

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6317\\_h03.zip](https://cdn.origene.com/chromatograms/mk6317_h03.zip)

**Restriction Sites:** SgfI-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_032490

**ORF Size:** 300 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_032490.5](#)

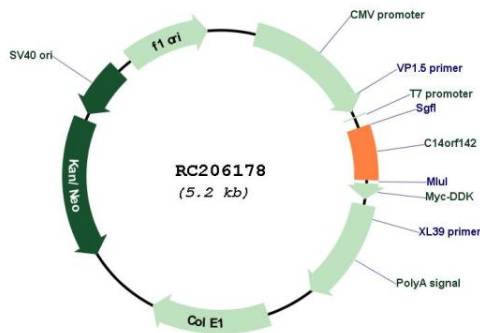
**RefSeq Size:** 1191 bp

**RefSeq ORF:** 303 bp

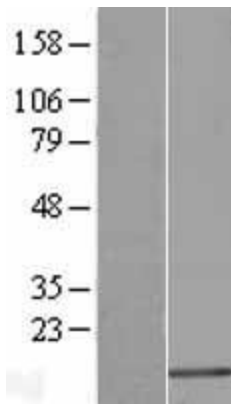
**Locus ID:** 84520  
**UniProt ID:** [Q9BXV9](#)  
**Cytogenetics:** 14q32.12  
**MW:** 10.9 kDa

**Gene Summary:** Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons beginning with adenine. The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37. GON7 likely plays a supporting role to the catalytic subunit OSGEP in the complex. [UniProtKB/Swiss-Prot Function]

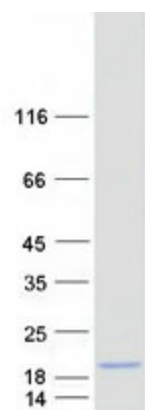
**Product images:**



Circular map for RC206178



Western blot validation of overexpression lysate (Cat# [LY410068]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206178 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GON7 protein (Cat# [TP306178]). The protein was produced from HEK293T cells transfected with GON7 cDNA clone (Cat# RC206178) using MegaTran 2.0 (Cat# [TT210002]).