

Product datasheet for **RC207858**

TP53INP2 (NM_021202) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TP53INP2 (NM_021202) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TP53INP2
Synonyms: C20orf110; dj1181N3.1; DOR; PIG-U; PIGU; PINH
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207858 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCAGCGCCTCTCCAGCCTCTTCTTCAGCACCCCTCGCCCCGAAGACCCCGACTGCCCCGCG
CCTTCGTGTCGGAGGAGGATGAAGTGGACGGCTGGCTCATCATTGACCTGCCGGACAGCTACGCGGCTCC
ACCCAGCCCCGGGGCCGCCCTGCCCGCGGGCCGCCCTCCGCCGCGCCCTCCTTGATGGACGAGAGC
TGGTTTGTACCCTCCGCCTGTTTTACGGCAGAGGGCCTGGACTCGGTCCCGCCGCCCTCCAGAGCA
GTCCCCTGGAGGACCTCCTCATCGAGCACCCAGCATGTCCGTTTACGTCACCGGCAGCACCATAGTGCT
AGAGCCCGGGTCCCTTCCCCGCTCCCGGACGCGGCCCTGCCTGACGGGACCTCAGCGAAGGGGAATTG
ACGCCCGCCCGCGAGCCGCGGGCCGCGGCCACGCCGCTCCTCTCCAGCGCGGGCGGCGCTGCTGG
AGAAGGCGGGCCAGGTGCGGCGGCTGCAGCGGGCCCGGACGCGGGCAGAGCGCCACGCGCTGAGCGCAA
GGCGGTGCAGCGGCAGAACCGAGCCCGGAGACCGCTCCGCGCCGGTCCAAGAACCAGAGCAGCTTCATC
TACCAGCCGTGCCAGCGCCAGTTCAACTAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207858 protein sequence
 Red=Cloning site Green=Tags(s)

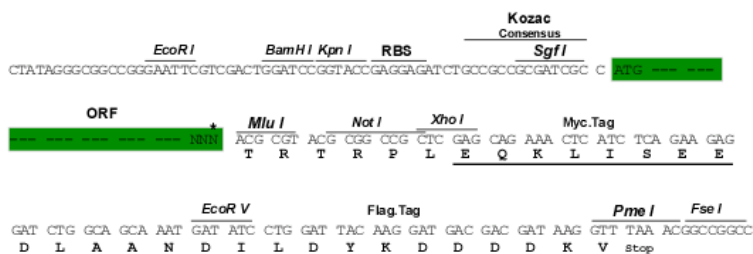
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MFQRLSSLFFSTPSPPEDPCPRAVFSEEDVDGWLIIIDLPSYAAPPSPGAAPAPAGRPPPAPSLMDES
WFVTTPACFTAEGPGLGPARLQSSPLEDLLIEHPMSVYVTGSTIVLEPGSPSPLPDAALPDGDLSEGEL
TPARREPRARHAAPLPARAALLEKAGQVRRLLQARQRAERHALSAKAVQRQNRARESRPRRSKNQSSFI
YQPCQRQFNY
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6802_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021202

ORF Size: 660 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_021202.3](#)

RefSeq Size: 4124 bp

RefSeq ORF: 663 bp

Locus ID: 58476

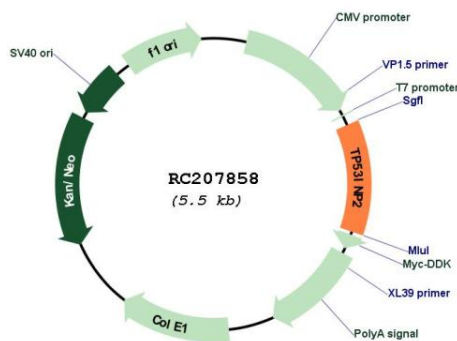
UniProt ID: [Q8IXH6](#)

Cytogenetics: 20q11.22

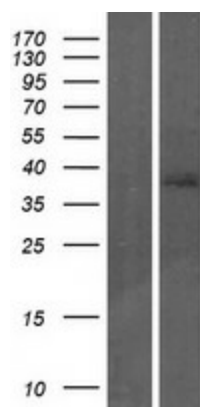
MW: 24 kDa

Gene Summary: The protein encoded by this gene promotes autophagy and is essential for proper autophagosome formation and processing. In addition, the encoded protein can enhance rDNA transcription by helping in the assembly of the POLR1/RNA polymerase I preinitiation complex. Finally, this protein serves as a transcriptional activator for some genes. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC207858



Western blot validation of overexpression lysate (Cat# [LY412041]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207858 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).