

Product datasheet for **RG207882**

RPAP2 (NM_024813) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPAP2 (NM_024813) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RPAP2
Synonyms:	C1orf82; Rtr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207882 representing NM_024813
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGACTTCGCTGGCCGTCTTCTGCCGGCCGAAGCGCGGGCTCCCCGCTGCTCTCGAAAAGCCG
 CAGGTAATAACAGACAAGTACTTTGAAACAAGAAGATGCTTCTAAAAGGAAAGCTGAACACTAGAAGCAGC
 TGTGAGAAAAGAAGATTGAATTTGAGAGAAAAGCTCTACATATTGTTGAACAGCTTTTAGAGGAGAATATT
 ACAGAAGAGTTCCCTAATGGAGTGTGGGAGGTTTACTACACCTGCTCACTACAGTGATGTCGTGGATGAAC
 GTTCTATTGTCAAACCTGTGGTTATCCTTTATGTCAGAAGAAGCTGGGAATTGTACCAAAAACAGAAATA
 TAAAATTTCTACCAAAACCAATAAAGTCTATGATATTACTGAAAGAAAGTCTTTTTCAGCAATTTTTGT
 TATCAAGCATCTAAGTTTTTTGAAGCACAAATCCCAAACTCCAGTATGGGTCGAGAAGAAGAGAGGCC
 ATCCTGATTTTCAACTGCTAAAGGAAGAACAAGTGGCCATTCTGGAGAAGAAGTACAGTTATGCAGTAA
 AGCCATTAACATCAGATATCGACAATCTAGCCACTTTGAAAAGCAATATGAATCTAGTCTTCTAGC
 ACTCACAGTGATAGTAGCAGTGACAATGAGCAAGACTTTGTTTCTCCATTCTACCAGGAAACAGACCAA
 ATTCAACAAATATTAGACCACAGCTGCACCAAAAAAGCATAATGAAAAGAAAGCTGGTCAAAAAGCTAA
 CTCCAAACACAAAGACAAAGAACAGACAGTAGTAGATGCTCACTGAGCAGTTAGGCGATTGCAAAATAGAT
 AGTCAGGAGAAAGATGCTACATGTGAACCTCCTTTACAGAAAAGTAAATACTCAGAGTTCTTCAAATAGCA
 CTTTGCCTGAAAGATTAAGAGCGTCAGAAAATTCTGAAAGTGAATACAGTAGGTCAGAAAATAACTTAGT
 AGGCATAAGTAAGAAAAGTGCAGAGCATTTTAAAGAAAATTTGCCAAATCAAACCAAGTGTCTAGGTCA
 GTGTCTAGTTCAGTGCAGGTGTCTCCTGAAGTTGAAAGAGAAAAGTAAAGTTTGAAGGAGACTT
 TGATTGAGTGAAGACAGAAGAACAATGAGTTTTTGTATGGCCAGAATTATGCTTCTGTGTGTCTGAA
 ACCCGAAGCCTCTCTGGTTAAAGAAGAAGTGTGAAAGTACATAATCTCAGATCCAGATAGTCATTTTC
 CCTGCCTGGAGGGAATCTCAGAACAGCTTGGATGAGTCTTTACCTTTTAGGGGCTCAGGTACAGCCATTA
 AACCACTGCCAAGTTACGAGAATTTGAAAAAGAAAGTAAATCTGAGGATCAGGAGGTTTTTA
 CAGAGGACGGTATGTTTTGGGTGAAGAAACCACCAATCACAAGACTCAGAAGAGCATGATTCCACCTTT
 CCACTGATAGACTCAAGTCCCAGAACCAGATTAGAAAACGCATCGTACTTGAAGTTGAGTAAAGTGT
 TGCCTGGCTTCTGGTTCCTCTCAGATTACATTGGGAGATATTTACACACAACCTAAAAATCTTGTTCG
 AACTTTCAGTTAACAAATAGAAATATTATACACAACCTGCGGAATGGACTTTAATTGCTATGGTGTG
 CTGTCATTACTGACCCCAATTCTTGGCATTAGAAAACATTCTCAGGAAGGTATGGTGTTCACACGGTTTC
 TAGACACCTCCTGAAGAATTACATCTAAAAAATGAAGACCTTGAAGTCTAACCATCATATTTAGAAC
 CAGCTGTTTACCAGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207882 representing NM_024813
 Red=Cloning site Green=Tags(s)

MADFAGPSSAGRKAGAPRCSRKAAGTKQSTLQKQEDASKRKAELAAVRKKIEFERKALHIVEQLLEENI
 TEEFLMECGRFITPAHYSDVVDERSIVKLCGYPLCQKKGIVPKQKYKISTKTNKYVDITERKSFCSNFC
 YQASKFFEAQIPKTPVWVREERHPDFQLLKEEQSGHSGEEVQLCSKAIKTSDIDNPSHFQYESSSSS
 THSDSSDNEQDFVSSILPGNRPNSTNIRPQLHQKSIMKKKAGHKANSKHDKDKEQTVVDVTEQLGDCKLD
 SQEKDATCELPLQKVNTQSSNSTLPERLKAENSESEYSRSEITLVGISKKSAEHFKRKFASNQVSRS
 VSSSVQVCPEVGKRNLKVLKETLIEWKTEETLRFLYGQNYASVCLKPEASLVKEELDEDDIISDPDSHF
 PAWRESQNSLDESLPFRGSGTAIKPLPSYENLKKETEKLNLRIREFYRGRYVLGEETTKSQDSEEHSTF
 PLIDSSSQNQIRKRVLEKLSKVLPLGLVPLQITLGDIIYTLKKNLVRTFRLTNRNIIHKPAEWTLIAMVL
 LSLLTPIILGIQKHSQEGMVFRFLDTLLEELHLKNEDESLESLTIIIFRTSCLPE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_024813

ORF Size: 1836 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_024813.3](#)

RefSeq Size: 3026 bp

RefSeq ORF: 1839 bp

Locus ID: 79871

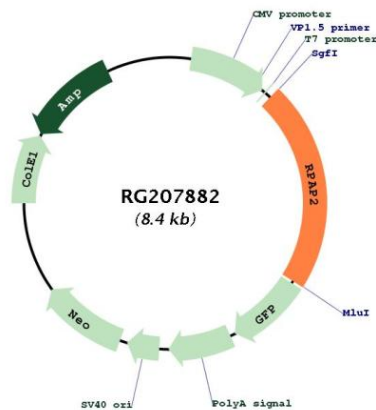
UniProt ID: [Q8IXW5](#)

Cytogenetics: 1p22.1

Domains: DUF408

Gene Summary: Protein phosphatase that displays CTD phosphatase activity and regulates transcription of snRNA genes. Recognizes and binds phosphorylated 'Ser-7' of the C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and mediates dephosphorylation of 'Ser-5' of the CTD, thereby promoting transcription of snRNA genes. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207882