

Product datasheet for **RG211344**

POLR2G (NM_002696) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: POLR2G (NM_002696) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: POLR2G
Synonyms: hRPB19; hsRPB7; RPB7; RPB19
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211344 representing NM_002696
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTTCTACCATATCTCCCTAGAGCACGAAATCCTGCTGCACCCGCGCTACTTCGGCCCCAACTTGCTCA
 ACACGGTGAAGCAGAAGCTCTTCACCGAGGTGGAGGGACCTGCACAGGGAAGTATGGCTTTGTAATTGC
 TGTACCACCATTGACAATTTGGTGTGGTGTGATCCAGCCAGGCCGAGGCTTTGTCCTTTATCCAGTT
 AAGTACAAGGCCATTGTTTTCCGGCCATTTAAAGGGGAGGTCGTGGATGCTGTTGTCCTACTCAGGTCAACA
 AGGTTGGACTCTTACAGAAATGGGCCATGTCTTGCTTCATCTCTCGACATTCATCCCTTCAGAGAT
 GGAGTTTGATCCTAACTCCAACCCACCATGTTACAAGACAATGGATGAGGATATTGTGATTACAGCAGGAC
 GATGAGATCCGCTTAAAGATTGTGGGGACCCGTGTGGACAAGAATGACATTTTTGCTATTGGCTCCCTGA
 TGGACGATTACTTGGGGCTTGTAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211344 representing NM_002696
 Red=Cloning site Green=Tags(s)

MFYHISLEHEILLHPRYFGPNLLNTVKQKLFTEVEGTCTGKYGFVIAVTTIDNIGAGVIQPRGFVLYPV
 KYKAIIVFRPFKGEVVDVAVTQVNVKVLFTIIGPMSCFISRHSIPSEMEFDPNSNPPCYKTMDEDIVIQD
 DEIRLKIVGTRVDKNDIFAIGSLMDDYLGLVS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_002696

ORF Size: 516 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_002696.3](#)

RefSeq Size: 828 bp

RefSeq ORF: 519 bp

Locus ID: 5436

UniProt ID: [P62487](#)

Cytogenetics: 11q12.3

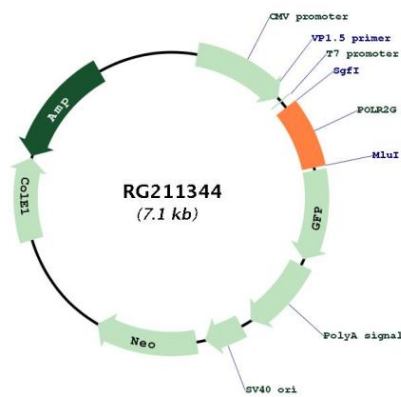
Domains: S1, RNA_pol_Rpb7_N

Protein Families: Transcription Factors

Protein Pathways: Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

Gene Summary: This gene encodes the seventh largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The protein functions in transcription initiation, and is also thought to help stabilize transcribing polymerase molecules during elongation. [provided by RefSeq, Jan 2009]

Product images:



Circular map for RG211344