

Product datasheet for **RG236147**

POLR2F (NM_001301130) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: POLR2F (NM_001301130) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: POLR2F
Synonyms: HRBP14.4; POLRF; RPABC2; RPABC14.4; RPB6; RPB14.4; RPC15
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236147 representing NM_001301130.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCAGACAACGAGGACAATTTTGATGGCGACTTTGATGATGTGGAGGAGGATGAAGGGCTAGAT
GACTTGGAGAATGCCGAAGAGGAAGGCCAGGAGAATGTCGAGATCCTCCCCTCTGGGGAGCGACCCGAG
GCCAACCAAGCAATCACCACACCATACATGACCAAGTACGAGCGAGCCCGCTGCTGGGCACCCGA
GCGCTCCAGATTGCGATGTGTGCCCTGTGATGGTGGAGCTGGAGGGGAGACAGATCCTCTGCTCATT
GCCATGAAGGAACAACGCCCGCTCGGCCTCAGAACCGCCCGGAGAGGAGCCCGCTGGATGGACAGA
GGGACGAGGGACGAGCATCTGCCGTCGTGCCGCTGCCCTGCAGTCGCCTCCAACACCCGCTGCTGC
CCGCCCGCTGCCTGCCTGCTGTCCTCTCTCCCGGAGGCGCGGCTCAGAGAGGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236147
Blue=ORF Red=Cloning site Green=Tag(s)

```
MSDNEDNFDGDDFDDVEEDEGLDDLENAEEEGQENVEILPSGERPQANQKRITTPYMTKYERARVLGTR
ALQIAMCAPVMVELEGETDPLL IAMKELNARSASEPPGEEPPWMDRGRTRDEHLPSCGPCPAVASNTRCC
PPAACLPGISLSRRRRREE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

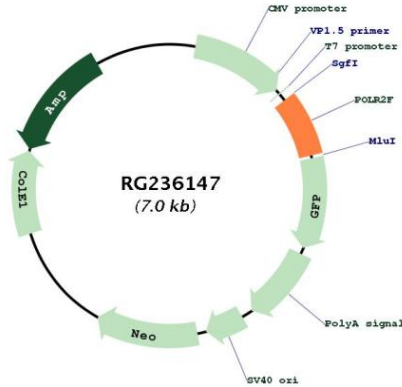


- ACCN:** NM_001301130
- ORF Size:** 474 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each 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).
- RefSeq:** [NM_001301130.2](#)
- RefSeq Size:** 1450 bp
- RefSeq ORF:** 477 bp
- Locus ID:** 5435
- Cytogenetics:** 22q13.1
- Protein Families:** Transcription Factors
- Protein Pathways:** Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
- MW:** 18 kDa

Gene Summary:

This gene encodes the sixth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. In yeast, this polymerase subunit, in combination with at least two other subunits, forms a structure that stabilizes the transcribing polymerase on the DNA template. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG236147