

# **Product datasheet for RG200855**

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OriGene Technologies, Inc.

## POLR2F (NM 021974) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** POLR2F (NM\_021974) Human Tagged ORF Clone

Tag: TurboGFP Symbol: POLR2F

Synonyms: HRBP14.4; POLRF; RPABC2; RPABC14.4; RPB6; RPB14.4; RPC15

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG200855 representing NM\_021974

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CTGGGGGTGGACGAGCTCATCATCACCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG200855 representing NM\_021974

Red=Cloning site Green=Tags(s)

MSDNEDNFDGDDFDDVEEDEGLDDLENAEEEGQENVEILPSGERPQANQKRITTPYMTKYERARVLGTRA

LQIAMCAPVMVELEGETDPLLIAMKELKARKIPIIIRRYLPDGSYEDWGVDELIITD

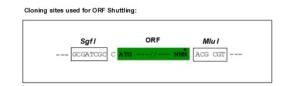
TRTRPLE - GFP Tag - V

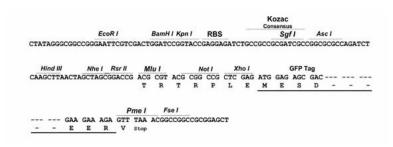
Restriction Sites: Sgfl-Mlul





#### **Cloning Scheme:**





**ACCN:** NM\_021974

ORF Size: 381 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:** <u>NM 021974.5</u>

RefSeq Size: 546 bp RefSeq ORF: 384 bp Locus ID: 5435

**UniProt ID:** P61218

Cytogenetics: 22q13.1

**Domains:** RNA\_pol\_Rpb6 **Protein Families:** 

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

polymerase

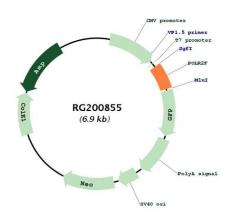
**Transcription Factors** 

**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 RG200855