

Product datasheet for **RG209776**

RNA Polymerase II p14.5 (POLR2I) (NM_006233) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNA Polymerase II p14.5 (POLR2I) (NM_006233) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: POLR2I
Synonyms: hRPB14.5; RPB9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209776 representing NM_006233
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCCGACGGGACTTACGAGCCGGGCTTCGTGGGTATTCGCTTCTGCCAGGAATGTAACAACATGC
TGTACCCCAAGGAAGACAAGGAGAACCGCATTCTGCTCTACGCGTGCCGGAAGTGTATTACCAGCAGGA
GGCCGACAACAGCTGCATCTATGTCAACAAGATCACGCACGAAGTGACGAAGTACCAGATTATCGCC
GACGTGTCCAGGACCCACGTTGCCGCGGACCGAGGACCACCCGTGCCAAAAGTGGGCCACAAGGAGG
CTGTGTTCTTCCAGTACACAGTGCAGCGGGCCGAGGACCCATGCGCCTTACTACGTGTGCACAGCCCC
ACACTGCGGCCACCGCTGGACCGAG

AC**GCGGCCGCTCGAG** - GFP Tag - GTTTAA

Protein Sequence: >RG209776 representing NM_006233
Red=Cloning site Green=Tags(s)
MEPDGTYEPGFVGI R F C Q E C N N M L Y P K E D K E N R I L L Y A C R N C D Y Q E A D N S C I Y V N K I T H E V D E L T Q I I A
D V S Q D P T L P R T E D H P C Q K C G H K E A V F F Q S H S A R A E D A M R L Y Y V C T A P H C G H R W T E

TRPLE - GFP Tag - V

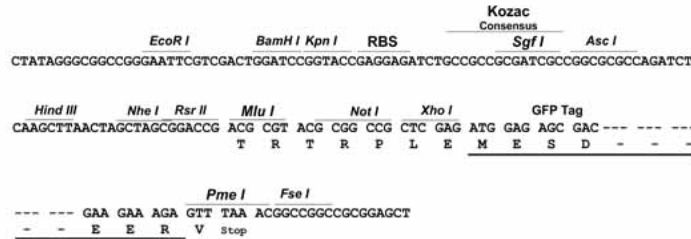
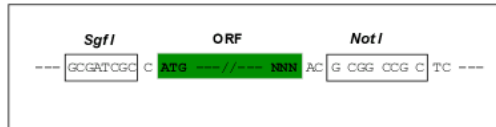
Restriction Sites: Sgfl-NotI



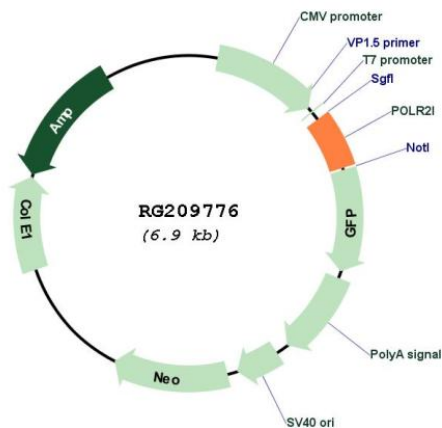
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Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN:

NM_006233

ORF Size:

375 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:	<ol style="list-style-type: none">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_006233.5
RefSeq Size:	885 bp
RefSeq ORF:	378 bp
Locus ID:	5438
UniProt ID:	P36954
Cytogenetics:	19q13.12
Domains:	TFIIS, RNA_POL_M_15KD
Protein Families:	Transcription Factors
Protein Pathways:	Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
Gene Summary:	This gene encodes a subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit, in combination with two other polymerase subunits, forms the DNA binding domain of the polymerase, a groove in which the DNA template is transcribed into RNA. The product of this gene has two zinc finger motifs with conserved cysteines and the subunit does possess zinc binding activity. [provided by RefSeq, Jul 2008]