

Product datasheet for RC201317

POLR2C (NM_032940) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR2C (NM_032940) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POLR2C
Synonyms:	hRPB33; hsRPB3; RPB3; RPB31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201317 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGTACGCCAACAGCCTACCGTGCAGATCACGGAGCTCACTGACGAGAATGTCAAGTTCATCATCG
AGAACACCGACCTGGCGGTGGCCAATTCGATTCGGAGGGTCTTCATCGCTGAGGTCCCATAATAGCCAT
TGACTGGGTTGAGATTGATGCCAATTCCTCAGTCTTCATGATGAATTCATTGCTCACAGGCTTGATTA
ATCCCCTCATTAGTGATGACATTGTGGACAAGCTGCAGTACTCTCGGGACTGCACATGTGAGGAGTTCT
GCCCGAGTGCTCGGTGGAGTTCACCCTCGATGTGCGGTGCAATGAAGACCAGACGCGACATGTCACGTC
TCGAGACCTCATCTCAAACAGCCCCGGGTCATTCGGGTGACATCCCGGAACCGAGATAATGACCCCAAT
GACTACGTGGAGCAGGATGACATCCTCATCGTCAAGTTGAGAAAGGGCCAGGAGCTGAGACTTCGAGCCT
ATGCCAAAAGGGCTTTGGCAAGGAGCATGCCAAGTGAACCCCTACTGCAGGGGTGGCTTTTGAATACGA
TCCAGACAATGCCCTGAGGCACACAGTGTACCCCAAGCCCGAGGAATGGCCAAAGAGTGAGTACTCGGAG
CTGGATGAGGATGAGTCGAGGCTCCCTATGACCCCAACGGCAAGCCAGAAAGGTTTTACTACAATGTGG
AGTCTGTGGCTCTCTGCGTCTGAAACCATTGTCTGTGAGCCCTCTCAGGATTGAAGAAGAACTGAG
TGATTTACAACTCAATTAAGCCACGAGATCCAGAGTGATGTGCTAACCATAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201317 protein sequence
Red=Cloning site Green=Tags(s)

MPYANQPTVRITELTDENVKFIIENTDLAVANSIRRVFIAEVPIAIDWVQIDANSSVLHDEFIAHRLGL
 IPLISSDDIVDKLQYSRDCTCEEFCEPCSVFTLDVRCNEDQTRHVTSRDLSNSPRVIPVTSRNRDNDPN
 DYVEQDDILIVKLRKGQELRLRAYAKKGFGEHAKWNPAGVAFEYDPDNALRHTVYPKPEEWPKSEYSE
 LDEDESQAPYDPNGKPERFYNNVESCGLSRPETIVLSALSGLKKKLSLDTQLSHEIQSDVLTIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6083_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_032940

ORF Size: 825 bp

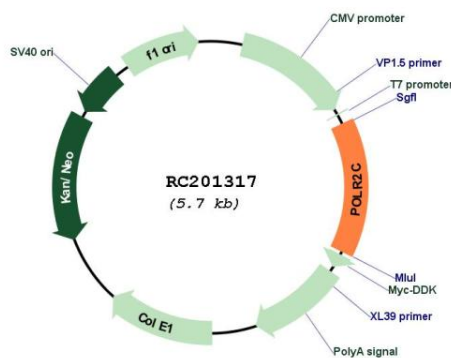
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

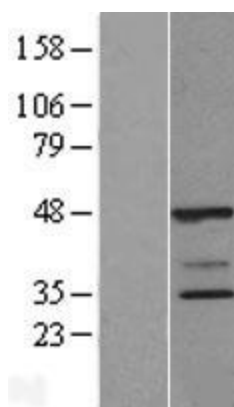
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_032940.3
RefSeq Size:	1822 bp
RefSeq ORF:	828 bp
Locus ID:	5432
UniProt ID:	P19387
Cytogenetics:	16q21
Domains:	RNA_pol_A_bac
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
MW:	31.4 kDa
Gene Summary:	This gene encodes the third largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The product of this gene contains a cysteine rich region and exists as a heterodimer with another polymerase subunit, POLR2J. These two subunits form a core subassembly unit of the polymerase. A pseudogene has been identified on chromosome 21. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC201317



Western blot validation of overexpression lysate (Cat# [LY409880]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201317 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).