

## Product datasheet for RC224755

### POLR2J2 (NM\_032959) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	POLR2J2 (NM_032959) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POLR2J2
Synonyms:	HRPB11B; POLR2J3; RPB11b1; RPB11b2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224755 representing NM_032959 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAACGCCCTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGAAGATCACCATTAAACAAGGACA  
 CCAAGGTACCAATGCCTGTTTATTCACCATGAACAAAGAAGACCACACACTGGGAAACATCATTAAATC  
 ACAACTCCTAAAAGACCCGCAAGTGCTATTTGCTGGCTACAAAGTCCCCACCCCTTGAGCACAAGATC  
 ATCATCCGAGTGCAGACCACGCCGACTACAGCCCCAGGAAGCCTTTACCAACGCCATCACCGACCTCA  
 TCAGCGAGCTGTCCCTGCTGGAGGAGCGCTTCCGACGTGCCTGCTTCCCTTCGCCTTCTGCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC224755 representing NM_032959 Red=Cloning site Green=Tags(s)
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MNAPPAFESFLLFEGEKITINKDTPVNAFLFTMNKEDHTLGNIKSQLLKDPQVLFAGYKVPHPLEHKI  
 IIRVQTPDYSPPQEAFTNAITDLISELSLLEERFRTCLLPRLRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6475_h06.zip">https://cdn.origene.com/chromatograms/mk6475_h06.zip</a>
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Restriction Sites:	SgfI-MluI
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### Cloning Scheme:



ACCN: NM\_032959

ORF Size: 345 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

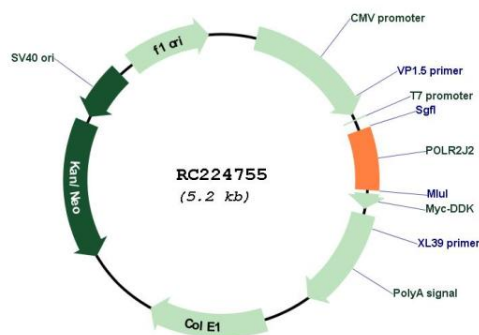
RefSeq: [NM\\_032959.1](#)

RefSeq Size: 1727 bp

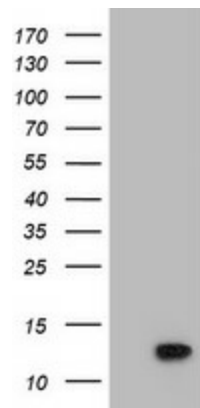
RefSeq ORF: 348 bp

Locus ID:	246721
UniProt ID:	<a href="#">Q9GZM3</a>
Cytogenetics:	7q22.1
Domains:	RNA_pol_L
Protein Families:	Transcription Factors
Protein Pathways:	Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
MW:	12.9 kDa
Gene Summary:	This gene is a member of the RNA polymerase II subunit 11 gene family, which includes three genes in a cluster on chromosome 7q22.1 and a pseudogene on chromosome 7p13. The founding member of this family, DNA directed RNA polymerase II polypeptide J, has been shown to encode a subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This locus produces multiple, alternatively spliced transcripts that potentially express isoforms with distinct C-termini compared to DNA directed RNA polymerase II polypeptide J. Most or all variants are spliced to include additional non-coding exons at the 3' end which makes them candidates for nonsense-mediated decay (NMD). Consequently, it is not known if this locus expresses a protein or proteins in vivo. [provided by RefSeq, Jul 2008]

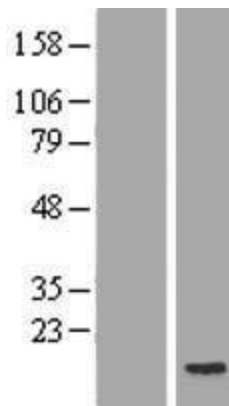
## Product images:



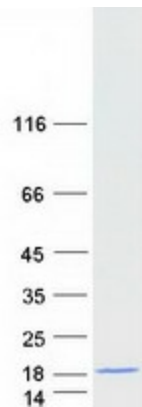
Circular map for RC224755



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY POLR2J2 (Cat# RC224755, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-POLR2J2 (Cat# [TA502454]). Positive lysates [LY409843] (100ug) and [LC409843] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY409843]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224755 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POLR2J2 protein (Cat# [TP324755]). The protein was produced from HEK293T cells transfected with POLR2J2 cDNA clone (Cat# RC224755) using MegaTran 2.0 (Cat# [TT210002]).