

Product datasheet for RC207553

POLR3A (NM_007055) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3A (NM_007055) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POLR3A
Synonyms:	ADDH; C160; HLD7; hRPC155; RPC1; RPC155; WDRTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207553 representing NM_007055 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAGGAGCAGTTCGGGAGACGGATGTGGCCAAGAAAATAAGCCACATCTGTTTTGGAATGAAGT
CACCTGAGGAGATGCGCCAGCAGGCGCACATCCAAGTTGTGAGTAAGAACCTGTACAGCCAGGACAACCA
ACATGCCCCCTTGCTATATGGGGTGTCTGACCATAGGATGGGTACGAGTGAGAAGGATCGTCCATGTGAA
ACCTGTGGGAAAACTTGGCTGACTGTCTAGGCCACTATGGGTATATCGACCTGGAGTTGCCGTGTTTTT
ATGTAGGGTACTTCAGAGCAGTCATAGGCATCTTACAGATGATCTGCAAAACCTGCTGCCACATCATGCT
GTCCCAAGAGGAGAAGAAGCAGTTTCTGGACTATCTAAAGAGGCCCGGCCTGACCTACCTTCAGAAGCGA
GGACTGAAAAAGAAAATCTCTGACAAGTGCCGGAAGAAAAACATCTGCCATCACTGTGGCGCTTTAATG
GTACCGTAAAGAAGTGTGGACTGCTGAAAAAATTCATGAGAAATACAAGACCAACAAAAAGTGGTGGA
TCCCATTTGATCAAAATTCCTTCAGTCTTTTGAACAGCCATTGAACATAATAAAGAAGTGGAGCCTCTG
CTGGGAAGGGCACAGGAAAACCTTGAATCCCTTAGTAGTTCTGAATTTATTTAAACGAATCCCAGCTGAAG
ATGTTCTCTACTTCTGATGAACCCAGAAGCCGAAAGCCGTCTGATTTGATTCTCACACGACTTTTGGT
GCCTCCTTTGTGTATCAGACCCCTCCGTTGTGAGTGATTTGAAGTCTGGCACCATGAAGATGATCTGACA
ATGAACTGACAGAAATCATTTTCTAAACGATGTTATTAAGCATCGGATCTCAGGAGCCAAGACCC
AGATGATCATGGAGGACTGGGATTTCTGCAGCTGCAGTGTGCCCTCTACATTAACAGTGAGCTCTCGGG
CATTCCCTCAACATGGCACCCAAGAAGTGGACCAGAGGCTTCGTCACGCCTGAAGGGAAAAACAGGGT
CGATTTAGAGGAAATCTCTCAGGAAAGAGAGTGGATTTTCTGGCAGAACAGTCACTCGCCCGACCCCA
ACCTCCGATTGATGAGGTAGCTGTGCCAGTTCATGTGGCCAAAATCTAACTTTTCTGAGAAGGTAAA
CAAAGCAAACATCAATTTCTTGAGGAACTGGTTCAAACGGCCCTGAGGTTCAACCAGGAGCAAATTC
ATTCAGCAGAGACATACGCAGATGAAAAGGTTTTTGAATAACGAAATCGAGAAAAGATGGCTCAAGAGC
TCAAGTATGGTGACATCGTAGAGAGACACCTCATCGATGGAGATGTGGTGTCTTCAATCGGCAGCCCTC
GCTGCACAAATTGAGCATTATGGCTCATCTGGCCAGGTCAAGCCCCACCGACCTTCAGATTTAATGAG



[View online »](#)

TGTGTCTGTACACCCTATAATGCTGACTTTGATGGTGATGAAATGAACCTTCATCTTCTCAAACAGAAG
AAGCTAAAGCAGAGGCCCTTGTCTGATGGGGACTAAAGCAAATCTTGTAAACCCGAGGAATGGGGAACC
GCTGATTGCTGCTATTACAGGATTTTCTAACAGGTGCCTATCTCCTCACTCTCAAGGACACTTTCTTTGAT
CGAGCCAAAGGCTTGCCAAATCATTGCTTCAACTGGTTGGCAAGGATGAGAAAAATTAAGTTCCGCTCC
CACCGCTACAATCCTAAAGCCTGTACCCTGTGGACGGGAAAGCAGATCTTCAGTGTATCCTCAGGCC
TAGCGATGACAATCCAGTGAGGGCCAACCTCGAAACCAAGGCCAAGCAGTACTGTGGCAAAGGGGAAGAT
CTCTGTGCCAATGATTCCTATGTTACAATCCAGAACAGTGAGTTGATGAGTGGCAGCATGGACAAAGGAA
CCCTAGGGTCAGGATCCAAGAACAATATTTTTACATTTTCTGCTGCGAGACTGGGGACAGAATGAAGCTGC
AGATGCCATGTCACGGCTCGCCAGGCTGGCTCCTGTCTACCTGTCTAACCGTGGTTTCTCAATTGGGATC
GGTGTGTACACCTGGCCAAGGACTGTGAAGGCCAAGTATGAGTTGCTGAATGCCGGCTACAAGAAAT
GTGATGAGTACATCGAAGCCCTGAACACGGGCAAGCTGCAGCAGCAGCCTGGCTGCACTGCTGAGGAGAC
CCTGGAGGCACTGATCCTGAAGGAGCTGTCTGTGATCCGTGACCACGCTGGCAGTGCCTGCCTCCGGGAG
CTGGACAAGAGCAACAGCCCCCTCACCATGGCTCTGTGCGGCTCAAAGGTTCTTCATTAACATATCAC
AGATGATTGCCTGTGTGGACAGCAGGCCATCAGTGGCTCTCGAGTGCCAGACGGCTTTGAAAACAGGTC
CTTGCCCTATTTGAAAACACTCAAAGCTCCCAGCTGCCAAAGGCTTTGTGGCTAATAGCTTTTATTCC
GGTTTGACACCAACTGAGTTTTCTTCCACACAATGGCCGGCCGGGAAGGTCTAGTCGACACGGGTGAA
AGACAGCTGAAACGGGATACATGCAGCGAAGGCTGTCAAATCTCTTGAAGATCTTTGCTCCCAGTATGA
TCTGACAGTCCGAAGCTCTACTGGCGATATTATCCAGTTCATTTATGGAGGAGATGGCTTAGATCCTGCA
GCTATGGAGGGAAAAGATGAACCTTTGGAGTTTAAAAGGGTTCTGGACAACATCAAAGCAGTCTTCCCGT
GTCCCAGTGAGCCTGCTCTCAGCAAAAACGAGCTGATCCTGACCACAGAGTCCATCATGAAGAAGAGTGA
GTTCTCTGCTGCCAGGACAGCTTCTGCGAGAAATAAAAAATTCATTAAGGGGGTCTCTGAGAAGATC
AAGAAAACCAGAGATAAATATGGCATCAATGATAACGGCAACAACAGAGCCCCGTGTGCTGTACCAGCTGG
ACCGCATCACCCACCCAAGTAGAAAAGTTTCTGGAGACCTGTAGGGACAAGTACATGAGGGCACAGAT
GGAGCCAGGTTCTGCAGTGGGTGCTCTGTGTGCCAGAGCATTGGTGAGCCAGGCCACCCAGATGACCCTG
AAGACTTTCCACTTTGCAGGTGTGGCCTCCATGAACATCACCTGGGCGTGCCCGGATTAAAGAGATCA
TCAACGCTTCCAAGGCCATCAGCACTCCAATTATCACAGCACAGCTAGACAAGGATGACGACCGGATTA
TGCTCGCCTCGTGAAGGGAGAATTGAGAAAACCTCTTGGGAGAGATTTCCGAGTATATTGAAGAAGTG
TTTCTTCTGATGACTGCTTTATTCTCGTCAAGCTCTCCCTGGAACGGATTAGGCTTCTGAGACTGGAAG
TGAACGCTGAGACAGTGAATATCCATCTGCACATCCAAGCTCCGTGTGAAGCCCGGTGATGTGGCTGT
TCATGGTGAGGCTGTGGTGTGTGTACCCCCAGAGAGAACAGCAAGAGCTCCATGTACTACGTGCTGCAG
TTCTGAAAGAGGATCTCCCAAGGTGGTGGTGCAGGGCATTCCAGAGGTGTCCAGAGCTGTATCCACA
TTGACGAGCAGAGTGAAAGGAGAAGTACAAGCTTCTGGTGAAGGTGATAACCTGCGGGCAGTCATGGC
CACACACGGTGTGAAGGGCACCCGAACCACTCAATAACACCTATGAGGTGGAGAAAACCTGGGCATC
GAGGCCGCCGGACAACGATCATCAATGAAATCCAGTACACCATGGTGAACCACGGCATGAGCATCGACA
GGAGGCACGTGATGCTGCTCTCCGACCTCATGACCTACAAGGGTGAAGTCTGGGCATCACTAGGTTTGG
CCTGGCCAAGATGAAGGAGAGTGTGCTGATGCTGGCCTCCTTTGAGAAGACGGCTGACCATCTTTTAC
GCTGCCTACTTCGGGCAGAAGGACTCTGTGTGTGGGTGTCTGAGTGCATCATATGGGAATCCCAATGA
ACATTGGAACCGGGCTCTCAAGCTGCTTACAAGGCTGACAGGGACCCGAACCTTCCAAGAGGGCCCT
GATCTTCGACACAAATGAATTCACATCCCCCTTGTACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207553 representing NM_007055
 Red=Cloning site Green=Tags(s)

```

MVKEQFRETDAKKISHICFGMKSPPEMRQQAHIQVVSKNLYSQDNQHAPLLYGVLDHRMGTSEKDRPCE
TCGKNLADCLGHYGYIDLELPCFHVGYFRAVIGILQMICKTCCHIMLSQEEKKQFLDYLRKRPGLTYLQKR
GLKKKISDKCRKKNICHHCFAFNGTVKKCGLLKIIHEKYKTNKKVVDPIVSNFLQSFETAIEHNKEVEPL
LGRAQENLNLVVLNLFKRIPAEDVPLLLMNPEAGKPSDLILTRLLVPPLCIRPSVVSDDLKSGTNEDDL
MKLTEIIFLNDVIKKHRI SGAKTQIMEDWDFLQLQCALYINSELSGIPLNMAPKKWTRGFVQRLKKGQG
RFRGNLSGKRVDFSGRTVISPDPNLRIDEVAVPVHVAKILTFPEKVNKANINFLRKLQVNGPEVHPGANF
IQQRHTQMKRFLKYGNREKMAQELKYGDIVERHLIDGDVVLFNRPQSLHKL SIMAHLARVKPHRTFRFNE
CVCTPYNADFQDEMNLHL PQTEEAKEALVLMGTKANL VTPRNGEPLIAAIQDFLTGAYLLTLKDTFFD
RAKACQIIASILVKGDEKIKVRLPPPTILKPVTLWTGKQIFSVILRPSDDNPVRANLRTKKGQYCGKGED
LCANDSYVTIQNSELMSGSMKGTLGSGSKNNIFYILLRDWQNEAADAMSRLARLAPVYL SNRGSIGI
GDVTPGQGLLKAKYELLNAGYKCCDEYIEALNTGKLQQQPGCTAEETLEALILKELSVIRDHAGSACLR
LDKSNLPTMALCGSKGSFINISQMIACVQQAISGSRVPDGFENRSLPHFEKHSKLPAAKGFVANSFY
GLTPTEFFHTMAGREGLVDTAVKTAETGYMQRRLVKSLEDLCSQYDLTVRSSTGDI IQFIYGGDGLDPA
AMEGKDEPLEFKRVL DNIKAVFPCSEPALSKNELILTTESIMKKSEFLCCQDSFLQEI KFKVSEKI
KKTRDKYGINDNGTTEPRVLYQLDRITPTQVEKFL ETCRDKYMRQMEPGSAVGALCAQSIGEPGTQMTL
KTFHFAGVASMNITLGVPRIKEIINASKAISTPIITAQLDKDDDADYARLVKGRIEKTLLGEISEYIEEV
FLPDDCFILVKLSLERIRLLRLEVNAETVRY SICTSKLRVKPGDVAVHGEAVVCVTPRENSKSSMYVVLQ
FLKEDLPKVVVQGIPEVSRAVIHIDEQSGKEKYKLLVEGDNLRVAVMATHGVKGRTRTTSNNTYEVEKTLGI
EAARTTIINEIQYTMVNHGMSIDRRHVMLLSDLMTYKGEVLGITRFLAKMKE SVMLASFEKTAADHLFD
AAYFGQKDSVCGVSECIIMGIPMNI GTGLFKLLHKADRPNPPKRPLIFDTNEFH IPLVT
  
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8119_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



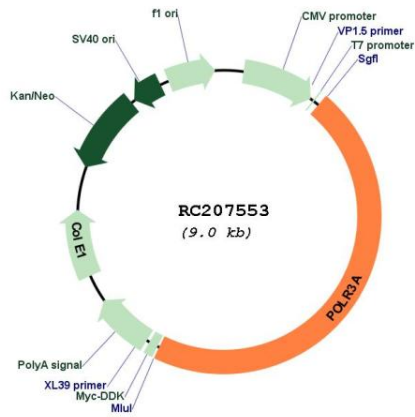
* The last codon before the Stop codon of the ORF

ACCN: NM_007055

ORF Size: 4170 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_007055.4
RefSeq Size:	6652 bp
RefSeq ORF:	4173 bp
Locus ID:	11128
UniProt ID:	O14802
Cytogenetics:	10q22.3
Domains:	RNA_pol_Rpb1_2, RPOLA_N, RNA_pol_Rpb1_3, RNA_pol_Rpb1_1, RNA_pol_Rpb1_5, RNA_pol_Rpb1_4
Protein Families:	Transcription Factors
Protein Pathways:	Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
MW:	156.1 kDa
Gene Summary:	The protein encoded by this gene is the catalytic component of RNA polymerase III, which synthesizes small RNAs. The encoded protein also acts as a sensor to detect foreign DNA and trigger an innate immune response. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC207553