

Product datasheet for SC113761

POLR3B (NM_018082) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3B (NM_018082) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR3B
Synonyms:	C128; HLD8; INMAP; RPC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113761 sequence for NM_018082 edited (data generated by NextGen Sequencing)

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ATGGACGTGCTAGCGGAGGAGTTTGGGAACCTGACTCCGGAGCAGCTGGCGGCGCCGATC
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CACATCAACTGATATGGAAGATGGACCCATTGTAAATTAGCCAGTAACTGGGAGTA
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 CTTAATGGTAACATCTTAGGTGTCATTGAGACCACAAAAAGCTAGTGAATACATTTGCA
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 AGTATGCTTTTGTAGAGAGACTAATGATTTCAAGTATGCCTTTGAGGTTGATGTCTGT
 GGGCAGTGTGGACTTCTGGGTATTCTGGCTGGTCCATTACTGCAAGTCATCCTGCCAC
 GTGCTTCCCTCCGATTTCCGTATGCCTGCAAGCTGCTTCCAGGAACTACAGTCTATG
 AACATCATCCCCAGGTTAAAAGTGTCCAAGTACAACGAATGA

Clone variation with respect to NM_018082.5
 2055 t=>c;3396 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018082 unedited
 GGTGCGCCAAATTGATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCGCGGAGG
 TTCTATCTGTTTCTTCTCCTTCGTGAGCAGCATGGACGTGCTAGCGGAGGAGTTTGGGA
 ACCTGACTCCGGAGCAGCTGGCGCGCCGATCCCAGCTGTAGAGGAAAAATGGAGGCTGC
 TTCCAGCATTTTTAAAGGTGAAAGGCCTTGTGAAACAGCATATAGATTCAATTTAACTATT
 TCATTAATGTAGAGATAAAGAAGATAATGAAAGCCAATGAAAAGGTTACAAGTGACGCTG
 ACCCTATGTGGTACTTAAAAATCTTAATATCTATGTTGGGCTTCTGATGTTGAAGAAA
 GCTTCAATGTAAGTACAGCAGTGTCCCTCATGAGTGCCGTTTGGAGACATGACATACT
 CTGCCCCATTACAGTGGATATTGAATATACCCGAGGCAGCCAGAGGATCATCCGCAATG
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 TTGTTAAAGGAGTAGAAAAAGTTATTCTTATCCAAGAGCAGCTGTCTAAGAACAGGATCA
 TCGTGGAGGCTGATAGAAAAGGGCTGTNTGAGCTTCAAGTACCAGCTCTACCCATGAGAA
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 GTCAGAAGATATACCCATTGTCATCATATTTAAGCCCATGGTGTGAGAGTGACCCAGAA
 ATGTGCAGATGATTGGAACAGAGACACGTGATGGCTGCATTTGGGCCCATCTGGAAGAT
 GCCANAACTCAGATTTAAC

Restriction Sites:	NotI-NotI
ACCN:	NM_018082
Insert Size:	4000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_018082.3 , NP_060552.3
RefSeq Size:	4239 bp
RefSeq ORF:	3402 bp
Locus ID:	55703
UniProt ID:	Q9NW08
Cytogenetics:	12q23.3
Domains:	RNA_pol_Rpb2_6, RNA_pol_Rpb2_7, RNA_pol_Rpb2_2, RNA_pol_Rpb2_1, RNA_pol_Rpb2_3, RNA_pol_Rpb2_4, RNA_pol_Rpb2_5

Protein Families: Transcription Factors

Protein Pathways: Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

Gene Summary: This gene encodes the second largest subunit of RNA polymerase III, the polymerase responsible for synthesizing transfer and small ribosomal RNAs in eukaryotes. The largest subunit and the encoded protein form the catalytic center of RNA polymerase III. Mutations in this gene are a cause of hypomyelinating leukodystrophy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).