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CN: techsupport@origene.cn

Product datasheet for RG208356

POLR3B (NM_018082) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3B (NM_018082) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POLR3B
Synonyms:	C128; HLD8; INMAP; RPC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG208356 representing NM_018082
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGTGCTAGCGGAGGAGTTTGGGAACCTGACTCCGGAGCAGCTGGCGGCGCCGATCCCGACTGTAG
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GGTTTGGTTAAAAACTTGGCCCTTATGACACACATCACAACTGATATGGAAGATGGACCCATTGTTAAAT
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CCTTTGAGGTTGATGTCTGTGGGCAGTGTGGACTTCTGGGGTATTCTGGCTGGTGCCATTACTGCAAGTC
ATCCTGCCACGTGTCTTCCCTCCGTATTCCGTATGCCTGCAAGCTGCTCTTCCAGGAACTACAGTCTATG
AACATCATCCCCAGGTTAAAACTGTCCAAGTACAATGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208356 representing NM_018082
Red=Cloning site Green=Tags(s)

MDVLAEEFGNLTPEQLAAPIPTVEEKWRLLPAFLKVKGLVKQHIDSFNYFINVEIKKIMKANEKVTSDAD
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KSRTNMAVKQGRFYLRHNTLSEDIPIVIIFKAMGVESDQEIVQMIGTEEHVMAAFGPSLEECQKAQIFTQ
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ERDCLIGYGASMLLLERLMISSDAFEVDVCGQCGLLGYSGWCHYCKSSCHVSSLRIPYACKLLFQELQSM
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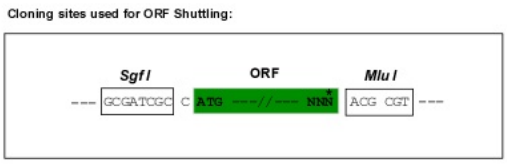
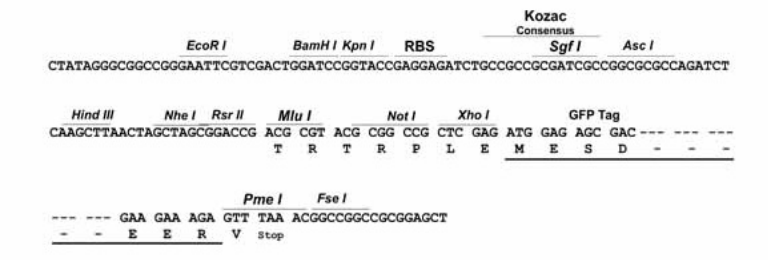
TRTRPLE - GFP Tag - V

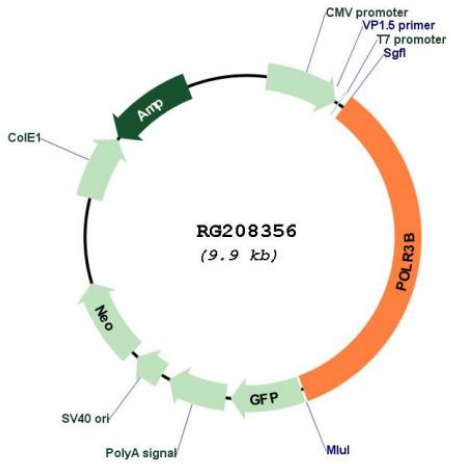
Restriction Sites: SgfI-MluI

Cloning Scheme:





Plasmid Map:



ACCN:	NM_018082
ORF Size:	3399 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.
RefSeq:	NM_018082.6
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]