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Product datasheet for RC222943

REV3L (NM_002912) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REV3L (NM_002912) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	REV3L
Synonyms:	POLZ; REV3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222943 representing NM_002912
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC222943 representing NM_002912
Red=Cloning site Green=Tags(s)

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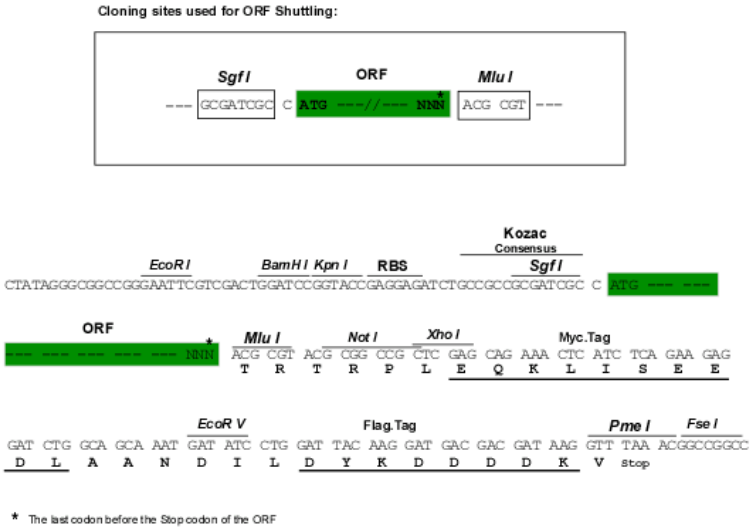
Chromatograms: https://cdn.origene.com/chromatograms/mk8046_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002912

ORF Size: 9390 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

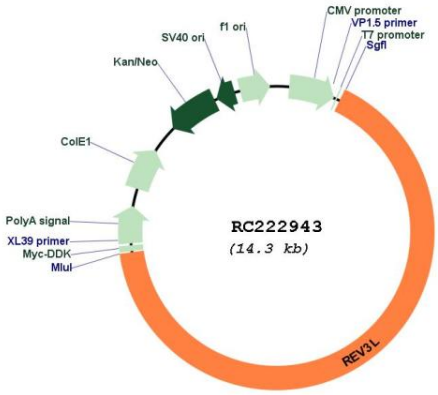
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_002912.4, NP_002903.3
RefSeq Size:	10719 bp
RefSeq ORF:	9393 bp
Locus ID:	5980
UniProt ID:	O60673
Cytogenetics:	6q21
Domains:	DNA_pol_B_exo, DNA_pol_B, POLBc
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways
MW:	352.6 kDa
Gene Summary:	The protein encoded by this gene represents the catalytic subunit of DNA polymerase zeta, which functions in translesion DNA synthesis. The encoded protein can be found in mitochondria, where it protects DNA from damage. Defects in this gene are a cause of Mobius syndrome. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RC222943