

Product datasheet for RC225579

EPOP (NM_001130677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	EPOP
Synonyms:	C17orf96; PRR28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC225579 representing NM_001130677
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCTGAGTCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGACCTGTGCCCTGCGCCCCGCTGGCAGTGCCGGCGTCCCGCGAGGGTCGCCCTGCTCCCCCA
CGCCCCGGAAGCCGTGTGCGGGGACCCAGGAATTCTCTCCGCTGTGCTGCGTGCCTTCGCTTCTGCGC
CCTTGCCAAGCCCCGGGCGTCTCTGGGCCCCGGGCGTGGGAGCTGGCGGCGCGGTCCCAAGTGCTG
CGGGGCCCTCAGGCCCCCTGCGCCTGGCGGCTGGGCCCCGGATGGCTGAAGCACCTCTGGGCACCGA
CCGGGCGGCCCGGCGTTCTTAACACCGCCCGCGGAGGATGCGGACGTGCGAGCGTGCCCCCGCCGCG
AGAGGAGGAAGAGGGCGGAGGCGGTTTCCGCACTTCGGCGTTCGCTCCTGTGCACCTCCGGGCCGCTGC
CCTGCGCCCCCGCACCTCGGGAATCTACGACCAGCTTCGCTCGGCCCGCCTCGCCCGGCCCGGGTC
TCGAGCCTCAGCGTGGCCAGCCGCGCCGCTCAGGAACCCAGTTCGCGCCTCGCTCGCCACCTGC
GGGCTCTCCACCGAGCCCGCGGTCCCGGACGGCGCCGCGCGCTTCCTGCCCGGCCAGCTGCCGAA
GTGATGGAACCCCCCGCCGCGCCCGCGAGGCTCCAGCGGCCAGCCCTCGACGGCCAGCCCGGCTC
CGGCCGACCCGGAGATCTCCGCCAGGAACATTCGATCGTCTGATCCGCGGTGCAAACTTTGGTGTA
CGCAAGGGCTTCGCTTGGACACTCCGAGTTTGCGCCGGGGCCAGAGCGGCCGCTGCGAAAGGGCCG
GCTCGGGGAGCCGCAAGAAACGCCGCTGCCGCGCCCCCTCCGCGCACCGCGCAGCCCCCGCCGCGCTG
CACCGACGCTCCCAACACGAGCACCTTCAGCCTCCTCAACTGCTTCCCCTGCCCGGCCGCTGGTGGT
GGGGGAAGACGGAGACCTAAAGCCGCATCCTCGCTTCGCTCCAGGGAGACTTAAGCCCCCGCCGCGC
CACCCGCTGTGAGGTGGCAGATGGGGGTCCCGCTGTCCCTGAGCCCCCTGGCCTCAAATTCGGGGGA
TCAACATGGATGAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC225579 representing NM_001130677

Red=Cloning site Green=Tags(s)

METLCAPRLAVPASPRGSPCSPTPRKPCRGTQEFSPCLCLRALAFALAKPRASSLGPGGELAARSPVL
RGPQAPLRPGGWAPDGLKHLWAPTGRPGVPNTAAAGEDADVAACPRRGEIEGGGFPHFGVRSCAPPGRC
PAPPHPRESTTSFASAPRPAPGLEPQRGPAASPPQEPSSRPPSPAGLSTEPAGGTAPRPFLPGQPAE
VDGNPPPAPEAPASPSTASPAPAAPGDLRQEHFDRLIRSKLWCYAKGFALDTPSLRRGPERPPAKGP
ARGAAKKRRLPAPPRTAQPRRPAPTLPTTSTFLLNCFPCPPALVVGEDGDLKPASSRLQGDSKPPPA
HPLWRWQMGGPAVPEPPGLKFWGINMDES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

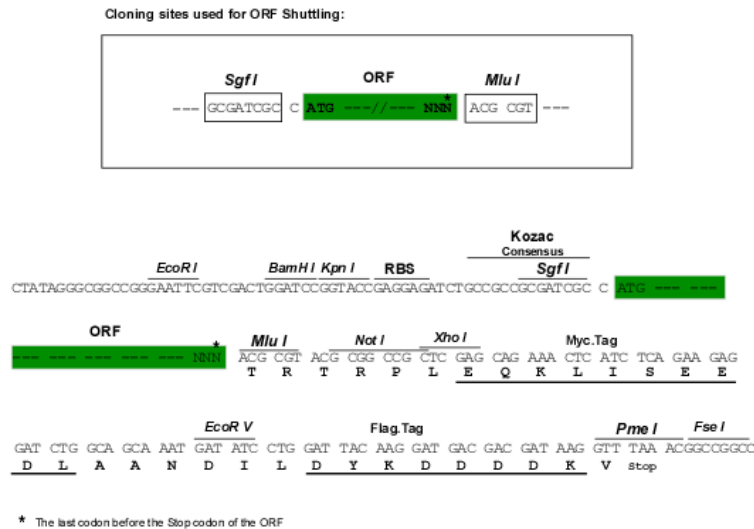
Chromatograms:

https://cdn.origene.com/chromatograms/mk8034_f06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001130677

ORF Size:

1137 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:

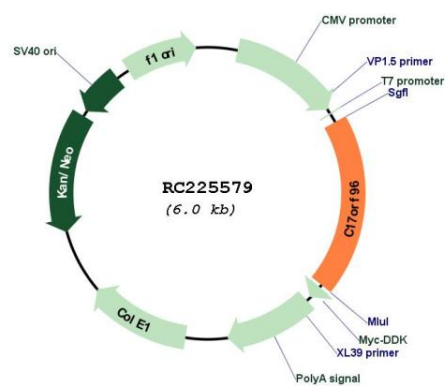
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001130677.2</u>
RefSeq ORF:	1140 bp
Locus ID:	100170841
UniProt ID:	<u>A6NHQ4</u>
Cytogenetics:	17q12
MW:	39.1 kDa
Gene Summary:	Scaffold protein that serves as a bridging partner between the PRC2/EED-EZH2 complex and the elongin BC complex: required to fine-tune the transcriptional status of Polycomb group (PcG) target genes in embryonic stem cells (ESCs). Plays a key role in genomic regions that display both active and repressive chromatin properties in pluripotent stem cells by sustaining low level expression at PcG target genes: acts by recruiting the elongin BC complex, thereby restricting excessive activity of the PRC2/EED-EZH2 complex. Interaction with USP7 promotes deubiquitination of H2B at promoter sites. Acts as a regulator of neuronal differentiation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC225579