

Product datasheet for **SC325850**

EPOP (NM_001130677) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPOP (NM_001130677) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPOP
Synonyms:	C17orf96; PRR28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325850 representing NM_001130677. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGGAGACCTGTGCCCTGCGCCCCGCCTGGCAGTGCCGGCGTCCCCGCGAGGGTCGCCCTGCTCCCCC
 ACGCCCCGGAAGCCGTGTGCGGGGACCCAGGAATTCTCTCCGCTGTGCCTGCGTGCCTCGCCTTCTGC
 GCCCTTGCCAAGCCCCGGGCGTCTCTGCGCCCCGGGGCTGGGGAGCTGGCGGCGCGTCCCCAGTG
 CTGCGGGGCCCTCAGGCCCTGCGCCTGGCGGCTGGGCCCGGATGGCCTGAAGCACCTCTGGGCA
 CCGACCGGGCGGCCGGCTTCTAACACCGCCCGCGGAGGATGCGGACGTCGCAGCGTGCCCCCGC
 CGCGAGAGGAGGAAGAGGGCGGAGGCGGTTTCCCGCACTTCGGCGTTTCGCTCCTGTGCACCTCCGGGC
 CGCTGCCCTGCGCCCCGCACCTCGGGAATCTACGACCAGCTTCGCCTCGGCCCGCCTCGCCCGGCC
 CCGGGTCTCGAGCCTCAGCGTGGCCAGCCGCCAGCCCGCTCAGGAACCCAGTTCCCGGCTCCGTCG
 CCACCTGCGGGCTCTCCACCGAGCCCGCGGGTCCCGGGACGGCGCCGCGGCCGTTCTGCCCGGCCAG
 CCTGCCGAAGTCGATGGAACCCCCCGCGGCCGCCCGGAGGCTCCAGCGGCCAGCCCCTCGACGGCC
 AGCCCGGCTCCGGCCGACCCGGAGATCTCCGCCAGGAACATTTTCGATCGTCTGATCCGCCGGTCGAAA
 CTTTGGTGTTACGCGAAGGGCTTCGCCTTGACACTCCGAGTTTTCGCCGGGGGCCAGAGCGGCCGCT
 GCGAAAGGGCCGGCTCGGGGAGCCGCCAAGAAACGCCGGCTGCCGGCGCCCCCTCCGCGCACCGCGCAG
 CCCC GCCCTGCACCGACGCTCCCCACCAGCAGCACCTCAGCCTCCTCAACTGCTTCCCCTGCCCC
 CCGGCCCTGGTGGTGGGGGAAGACGGAGACCTAAAGCCGCATCCTCGCTTCGCCTCCAGGGAGACTCT
 AAGCCCCCGCCGCCACCCGCTGTGGAGGTGGCAGATGGGGGTCCCGCTGTCCCTGAGCCCCCTGGC
 CTCAAATTCTGGGGATCAACATGGATGAAAGC**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI



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ACCN:	NM_001130677
Insert Size:	1140 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001130677.1</u>
RefSeq Size:	3232 bp
RefSeq ORF:	1140 bp
Locus ID:	100170841
UniProt ID:	<u>A6NHQ4</u>
Cytogenetics:	17q12
MW:	39.3 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]