

Product datasheet for **MC220285**

Leo1 (NM_001039522) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Leo1 (NM_001039522) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Leo1
Synonyms:	Gm185
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220285 representing NM_001039522
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGACATGGAGACCTCTTCGGGAGCGAAGCTGAGAGCGAGGCCGAGCGCAAAGATTCCGAGTCTG
 AGTCCGACTCGGACTCTGACCAGGACAACGGCGCTTCTGGCAGCAACGCCCTCTGGCAGCGAAAGTGATCA
 GGATGACAGAGGTGACTCCGGACAGCCAGTAACAAGGAAGTCTTCGGGGACGACAGTGAGGAGGAGGGG
 GCCTCTCATCACAGTGGCAGTGACAATCACTCTGAACGGTCAGACAATAGGTTCGGAGGCTTCCGAGCGCT
 CTGACCACGAGGATAATGAGCCCTCTGACGAGGACCAGCACAGTGGCTCTGAAGCCACAACGATGACGA
 CGATGAGGGCCACAGGTTCGGACGAAGGGAGCCGTCCTCAGAGGCAGAAGGGTCTGAAAAAGCCAGTCA
 GATGATGAGAAAATGGGATGGAGAGGATAAAAGTGACCAGTCAGATGACGAGAAGTGCAGAACTCTGACG
 ACGAGGATCGGGAGCAAGGGTCCGATGAGGATAAGCTGCAGAACTCTGACGACGACGAGGAGAAAATGCA
 GAACACAGATGACGAGGACCGGGCCAGATTTCTGATGATGACAGACAGCAGCTGTCTGAGGAGGAGAAG
 GGGAAATTCGACGATGAGCATCCAGTAGCTTCTGATAATGACGAGGAGAAGCAGAATTCGGACGATGAGG
 ACCAGCCCGAGGTGTCCGATGAGGAGAAAATGCAGAACTCAGACGATGAAAGGCCACAAGTCTCAGATGA
 AGATGGAAGGCGTTCAGACGGTTCAGGAGGAGCAAGACCAGAAGTCAGAATCTGCAAGAGGCGAGTGACAGT
 GAAGATGAAGTTTTACGACTGAAGCGCAAGAACCGGATTCATCCGATTCCGAAGCAGACAGCGACACCCG
 AGGTGCCCAAAGATAATAATGGAACCATGGATCTGTTTCGGAGGTGCAGATGACATATCTTCAGGGAGTGA
 TGGAGAAGATAAGCCCCAACTCCAGGACAGCCTGTGGATGAAAATGGCTTGCCCCAGGATCAGCAGGAG
 GAAGAGCCCATACCTGAGACCAGAATAGAAGTGGAGATCCCCAAAGTAAACACGGACTTGGGCAATGACT
 TATATTTTGTAACTGCCCACTTCTCAGTGTAGAGCCAGGCCTTTTGATCCTCAGTATTATGAAGA
 TGAATTTGAAGATGAGGAGATGCTGGATGAAGAGGGGAGAACCAGGTTAAAATTGAAGGTAGAAAACACT
 ATAAGATGGAGGATACGCAGAGATGAAGAAGGAAATGAAATTAAGAAAAGCAATGCGCGGATCGTCAAGT
 GGTGATGGAAGCATGTCCCTGCATTTAGGGAATGAAGTGTGTTGATGTGTACAAAGCCCCACTGCAGGG
 CGACCACAACCATCTTTTCATAAGACAAGTACTGGGCTGCAGGGGACAGGCCGCTTTTAAACGAAGCTC
 ACCTTCAGGCCTCACTCTACAGACAGTCCACACACAGGAAGTACCCTGTCACTTGCAGATAGATGCT
 CAAAGACACAGAAGATTCGAATCTTACCAATGGCTGGCCGTGACCCTGAGTGCCAGCGCACAGAGATGAT
 TAAGAAAAGAAGAAGACCGCTGAGGGCTCCATCAGGAGGGAGTCTCAGCAGCGCCGGATGCGAGAGAAA
 CAGCACCAGCGGGGGCTGAGCGCAGCTACCTGGAGCCTGATCGTACGACGAGGAGGAGGAAGGCGAGG
 AGTCCGTGAGCCTGGCTGCCATTAACAAACCGCTACAAAGGGGGCATCCCGGAGGAACGAGCCAGAATCTA
 CTCTCGGACAGTGTGAGGGCTCCGAAGAAGACAAAGCTCAAAGGTTACTCAAAGCAAAGAAGCTCAAC
 AGTGATGAGGAAGGTGAATCTTCTGAAAAGAGGAAAGCGGAAGACGATGACAAAGCGAATAAAAAGCATA
 AGAAGTATGTGATCAGTGTGATGAAGAAGAAGAAGATGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001039522
- Insert Size:** 2004 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_001039522.1 , NP_001034611.1
RefSeq Size:	2192 bp
RefSeq ORF:	2004 bp
Locus ID:	235497
UniProt ID:	Q5XJE5
Cytogenetics:	9 D
Gene Summary:	<p>Component of the PAF1 complex (PAF1C) which has multiple functions during transcription by RNA polymerase II and is implicated in regulation of development and maintenance of embryonic stem cell pluripotency. PAF1C associates with RNA polymerase II through interaction with POLR2A CTD non-phosphorylated and 'Ser-2'- and 'Ser-5'-phosphorylated forms and is involved in transcriptional elongation, acting both independently and synergistically with TCEA1 and in cooperation with the DSIF complex and HTATSF1. PAF1C is required for transcription of Hox and Wnt target genes. PAF1C is involved in hematopoiesis and stimulates transcriptional activity of KMT2A/MLL1. PAF1C is involved in histone modifications such as ubiquitination of histone H2B and methylation on histone H3 'Lys-4' (H3K4me3). PAF1C recruits the RNF20/40 E3 ubiquitin-protein ligase complex and the E2 enzyme UBE2A or UBE2B to chromatin which mediate monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1); UB2A/B-mediated H2B ubiquitination is proposed to be coupled to transcription. PAF1C is involved in mRNA 3' end formation probably through association with cleavage and poly(A) factors. Involved in polyadenylation of mRNA precursors. Connects PAF1C to Wnt signaling (By similarity).[UniProtKB/Swiss-Prot Function]</p>