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Product datasheet for RC202274

LEO1 (NM_138792) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LEO1 (NM_138792) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LEO1
Synonyms:	RDL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC202274 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACAGCGAAGCTGAGCGTAAAGATTCTGATTCTG
GATCTGACTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAAAGTGATCA
GGATGAAAGAGGTGATTCAGGACAACCAAGTAATAAGGAACTGTTTGGAGATGACAGTGAGGACGAGGGA
GCTTCACATCATAGTGGTAGTGATAATCACTCTGAAAGATCAGACAATAGATCAGAAGCTTCTGAGCGTT
CTGACCATGAGGACAATGACCCCTCAGATGTAGATCAGCACAGTGGATCAGAAGCCCCTAATGATGATGA
AGACGAAGGTCATAGATCGGATGGAGGGAGCCATCATTCAGAAGCAGAAGGTTCTGAAAAAGCACATTCA
GATGATGAAAAATGGGGCAGAGAAGATAAAAGTGACCAGTCAGATGATGAAAAGATACAAAATTCTGATG
ATGAGGAGAGGGCACAAGGATCTGATGAAGATAAGCTGCAGAATTCTGACGATGATGAGAAAATGCAGAA
CACAGATGATGAGGAGAGGCCTCAGCTTTCCGATGATGAGAGACAACAGCTATCTGAGGAGGAAAAGGCT
AATTCTGATGATGAACGGCCGGTAGCTTCTGATAATGATGATGAGAAACAGAATTCTGATGATGAAGAAC
AACCACAGCTGTCTGATGAAGAGAAAATGCAAAATTCTGATGATGAAAGGCCACAGGCCTCAGATGAAGA
ACACAGGCATTCAGATGATGAAGAGGAACAGGATCATAAATCAGAATCTGCAAGAGGCAGTGATAGTGAA
GATGAAGTTTTACGAATGAAACGCAAGAATGCGATTGCATCTGATTCAGAAGCGGATAGTGACACTGAGG
TGCCAAAAGATAATAGTGGAACCATGGATTTATTTGGAGGTGCAGATGATATCTCTTCAGGGAGTGATGG
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CCACAATCATCTTTTTATAAGACAAGGTACTGGTCTACAGGGACAAGCAGTCTTTAAAACGAAACTCACC
TTCAGACCTCACTCTACGGACAGTGCCACACATAGAAAGATGACTCTGTCACTTGCAGATAGGTGTTCAA
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GAAAGAAGAAGAACGTTTGAGGGCTTCCATACGTAGGGAATCTCAGCAGCGCCGAATGAGAGAGAAACAG
CACCAGCGGGGGCTGAGCGCCAGTTACCTGGAACCTGATCGATACGATGAGGAGGAGGAAGGCGAGGAGT
CCATCAGCTTGGCTGCCATTAAAAACCGATATAAAGGGGGCATTCGAGAGGAACGAGCCAGAATCTATTC
ATCAGACAGTGATGAGGGATCAGAAGAAGATAAAGCTCAAAGATTACTCAAAGCAAAGAAACTTACCAGT
GATGAGGAAGGTGAACCTTCCGGAAAGAGAAAAGCAGAAGATGATGATAAAGCAAATAAAAAGCATAAGA
AGTATGTGATCAGCGATGAAGAGGAAGAAGATGATGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202274 protein sequence
Red=Cloning site Green=Tags(s)

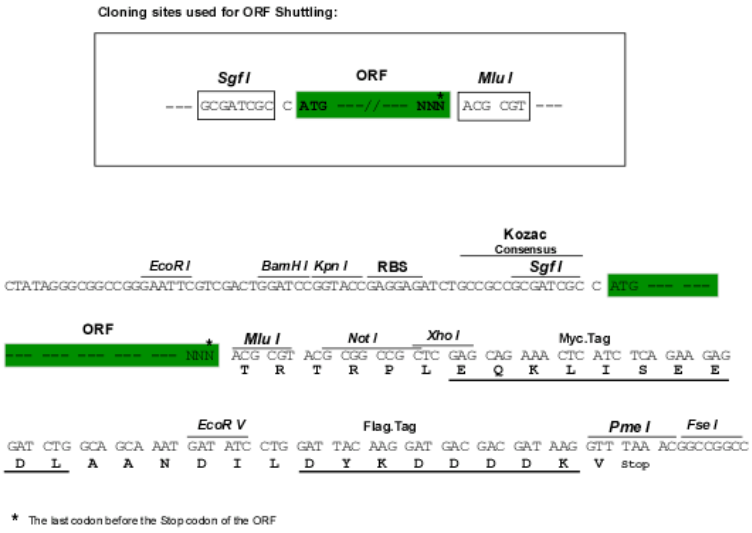
MADMEDLFGSDADSEAERKDSDSGSDSDSDQENAASGSNASGSESDQDERGDSGQPSNKELFGDDSEDEG
ASHHSGSDNHSERSDNRSEASERSDHEDNDPSDVDQHSGSEAPNDDEDEGHRSDGGSHHSEAEGSEKAHS
DDEKWGREDKSDQSDDEKIQNSDDEERAQGSDEDKLQNSDDDEKMQNTDDEERPQLSDDERQQLSEEEKA
NSDDERPVASDNDDEKQNSDDEEQPQLSDEEKMQNSDDERPQASDEEHRHSDDEEEQDHKSESARGSDSE
DEVLRMKRKNAIASDSEADSDTEVPKDNSGTMDLFGGADDISSGSDGEDKPPTPGQPVDENGLPQDQQEE
EPIPETRIEVEIPKVNTDLGNDLYFVKLPNFLSVEPRPFDPQYYEDEFEDEEMLDEEGRTRLKLKVENTI
RWRIRRDEEGNEIKESNARIVKWSDGSMSLHLGNEVFDVYKAPLQGDHNHLFIRQGTGLQGQAVFKTKLT
FRPHSTDSATHRKMTLSLADRCSKTQKIRILPMAGRDPECQRTEMIKKEEERLRASIRRESQQRRMREKQ
HQRGLSASYLEPDRYDEEEEGEESISLAAIKNRYKGGIREERARIYSSDSDEGSEEDKAQRLLKAKKLTS
DEEGEPSGKRKAEDDDKANKKHKKYVISDEEEEDDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6140_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138792

ORF Size: 1998 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_138792.4

RefSeq Size: 2202 bp

RefSeq ORF: 2001 bp

Locus ID: 123169

UniProt ID: Q8WVC0

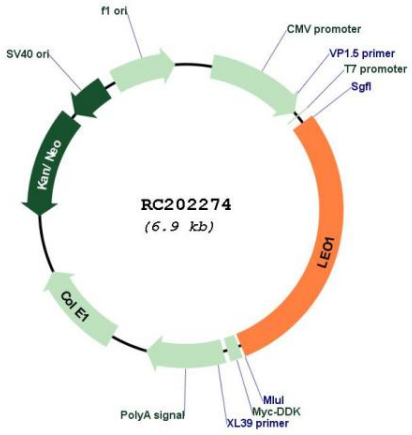
Cytogenetics: 15q21.2

Domains: Leo1

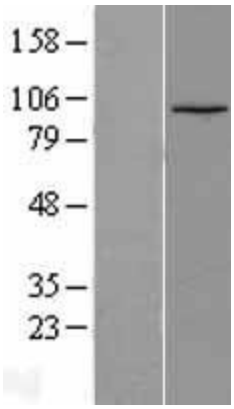
MW: 75.4 kDa

Gene Summary: LEO1, parafibromin (CDC73; MIM 607393), CTR9 (MIM 609366), and PAF1 (MIM 610506) form the PAF protein complex that associates with the RNA polymerase II subunit POLR2A (MIM 180660) and with a histone methyltransferase complex (Rozenblatt-Rosen et al., 2005 [PubMed 15632063]).[supplied by OMIM, Mar 2008]

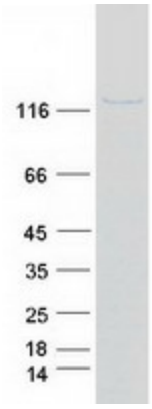
Product images:



Circular map for RC202274



Western blot validation of overexpression lysate (Cat# [LY403376]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202274 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LEO1 protein (Cat# [TP302274]). The protein was produced from HEK293T cells transfected with LEO1 cDNA clone (Cat# RC202274) using MegaTran 2.0 (Cat# [TT210002]).