

## Product datasheet for SC302624

### LAP2 (TMPO) (NM\_001032284) Human Untagged Clone

#### Product data:

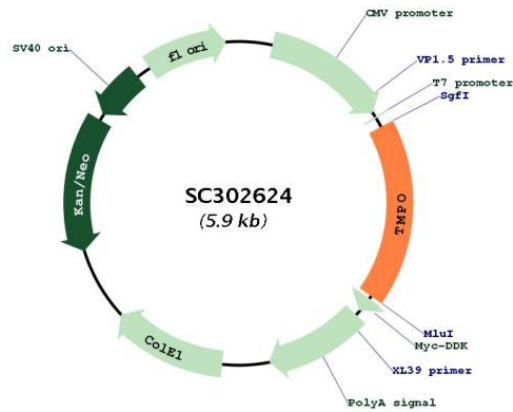
Product Type:	Expression Plasmids
Product Name:	LAP2 (TMPO) (NM_001032284) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMPO
Synonyms:	CMD1T; LAP2; LEMD4; PRO0868; TP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302624 representing NM_001032284. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTACTATAGGGCCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCGGAGTTTCTGGAAGACCCCTCGGTCTGACAAAAGACAAGTTGAAGAGTGAGTTGGTCGCCAAC
AATGTGACGCTGCCGGCCGGGAGCAGCGCAAAGACGTGTACGTCCAGCTCTACCTGCAGCACCTCACG
GCTCGCAACCGGCCGCCGCTCCCCGCCGGCACCAACAGCAAGGGGCCCGGACTTCTCCAGTGACGAA
GAGCGGAGCCCCACCCCGTCTCGGCTCTGGGGCCGCCGCCGGGCGGAGCCGAGCCGAGCCGTCGGC
AGGAAAGCCACAAAAAACTGATAAACCAGACAAGAAGATAAAGATGATCTAGATGTAACAGAGCTC
ACTAATGAAGATCTTTTGGATCAGCTTGTGAAATACGGAGTGAATCCTGGTCCTATTGTGGGAACAAC
AGGAAGCTATATGAGAAAAGCTTTTGAAGTGAAGGAACAAGGAACAGAATCAAGATCTTCTACTCCT
CTGCCAACATTTCTTCTCAGCAGAAAATACAAGGCAGAATGGAAGTAATGATTCTGACAGATACAGT
GACAATGAAGAAGACTCTAAAATAGAGCTCAAGCTTGAGAAGAGAGAACCCTAAAGGCCAGAGCAAAG
ACTCCAGTAACTCAAGCAAAGAAGAGTTGAGCAATCAGGTGGGAGAAAAACAGAGGAAAGAAGA
GTGAAAGGGATATTCTTAAGGAAATGTTCCCTATGAAGCATCTACCCAACAGGAATAGTGCTAGT
TGCCGACAGCAATCAAAGGGGCTGCAGGCCGCCATTAGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
TTTTCATCTAAATATGTTCCCTAAGTATGTTCCCTGGCAGATGTCAAGTCAAGTCAAGTCAAGTCAAGT
CGCTCCATTCGGTATGGATAAAAATTTGCTGTTTGTGTTGTGTCAGTTTTTTTGTGTTTGTGTTTGTGTT
CAAGTATGAAAACCAACCAAGTAAATCCCTTCTAATTTTCTCATGTTGACCCTAGAAAATCCAAC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001032284

**Insert Size:** 1038 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:**

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\\_001032284.2](#)

**RefSeq Size:** 3859 bp

**RefSeq ORF:** 1038 bp

**Locus ID:** 7112

UniProt ID: [P42167](#)

Cytogenetics: 12q23.1

Protein Families: Stem cell - Pluripotency, Transmembrane

MW: 38.7 kDa

**Gene Summary:** Through alternative splicing, this gene encodes several distinct LEM domain containing protein isoforms. LEM domain proteins include inner nuclear membrane and intranuclear proteins, and are involved in a variety of cellular functions including gene expression, chromatin organization, and replication and cell cycle control. The encoded alpha isoform is broadly diffuse in the nucleus and contains a lamin binding domain, while the beta and gamma isoforms are localized to the nuclear membrane and contain an HDAC3 interaction domain. The distinct isoforms may compete with each other when acting to chaperone other proteins and regulate transcription. [provided by RefSeq, Aug 2019]  
Transcript Variant: This (3) differs at the 3' end compared to variant 1, resulting in a shorter isoform (gamma) with a distinct C-terminus compared to isoform alpha.