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Product datasheet for SC108508

LAP2 (TMPO) (NM_003276) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAP2 (TMPO) (NM_003276) Human Untagged Clone
Tag:	Tag Free
Symbol:	LAP2
Synonyms:	CMD1T; LAP2; LEMD4; PRO0868; TP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC108508 sequence for NM_003276 edited (data generated by NextGen Sequencing)

ATGCCGGAGTTCCTGGAAGACCCCTCGGTCCTGACAAAAGACAAGTTGAAGAGTGAGTTG
GTCGCCAACAATGTGACGCTGCCGGCCGGGGAGCAGCGCAAAGACGTGTACGTCCAGCTC
TACCTGCAGCACCTCACGGCTCGCAACCGGCCGCCGCTCCCCGCCGGCACCAACAGCAAG
GGGCCCCCGGACTTCTCCAGTGACGAAGAGCGCGAGCCCACCCCGGTCCTCGGCTCTGGG
GCCGCCGCCGCGGGCCGGAGCCGAGCAGCCGTCGGCAGGAAAGCCACAAAAAAAACTGAT
AAACCCAGACAAGAAGATAAAGATGATCTAGATGTAACAGAGCTCACTAATGAAGATCTT
TTGGATCAGCTTGTGAAATACGGAGTGAATCCTGGTCCTATTGTGGGAACAACCAGGAAG
CTATATGAGAAAAAGCTTTTGAAACTGAGGGAACAAGGAACAGAATCAAGATCTTCTACT
CCTCTGCCAACAATTTCTTCTTCAGCAGAAAATACAAGGCAGAATGGAAGTAATGATTCT
GACAGATACAGTGACAATGAAGAAGGAAAGAAGAAAGAACACAAGAAAGTGAAGTCCACT
AGGGATATTGTTCCTTTTTCTGAACTTGGAACTACTCCCTCTGGTGGTGGATTTTTTCAG
GGTATTTCTTTTCCTGAAATCTCCACCCGTCCTCCTTTGGGCAGTACCGAACTACAGGCA
GCTAAGAAAGTACATACTTCTAAGGGAGACCTACCTAGGGAGCCTCTTGTTGCCACAAAC
TTGCCTGGCAGGGGACAGTTGCAGAAGTTAGCCTCTGAAAGGAATTTGTTTATTTCATGC
AAGTCTAGCCATGATAGGTGTTTAGAGAAAAGTTCTTCGTCATCTTCTCAGCCTGAACAC
AGTGCCATGTTGGTCTCTACTGCAGCTTCTCCTTCACTGATTAAAGAAACCACCACTGGT
TACTATAAAGACATAGTAGAAAATATTTGCGGTAGAGAGAAAAGTGGAATTCAACCATTA
TGTCCTGAGAGGTCCCATATTTCAGATCAATCGCCTCTCTCCAGTAAAAGGAAAGCACTA
GAAGAGTCTGAGAGCTCACAACTAATTTCTCCGCCACTTGCCCAGGCAATCAGAGATTAT
GTCAATTCTCTGTTGGTCCAGGGTGGGGTAGGTAGTTTGCCTGGAACTTCTAACTCTATG
CCCCCACTGGATGTAGAAAACATACAGAAGAGAATTGATCAGTCTAAGTTTCAAGAAACT
GAATTCCTGTCTCCTCCAAGAAAAGTCCCTAGACTGAGTGAGAAGTCAGTGGAGGAAAGG
GATTCAGGTTCCTTTGTGGCATTTCAGAACATACCTGGATCCGAACTGATGTCTTCTTTT
GCCAAAACTGTTGTCTCTCATTCACTCACTACCTTAGGTCTAGAAGTGGCTAAGCAATCA
CAGCATGATAAAATAGATGCCTCAGAACTATCTTTTCCCTTCCATGAATCTATTTTAAAA
GTAATTGAAGAAGAATGGCAGCAAGTTGACAGGCAGCTGCCTTCACTGGCATGCAAATAT
CCAGTTTCTTCCAGGGAGGCAACACAGATATTATCAGTTCCAAAAGTAGATGATGAAATC
CTAGGGTTTATTTCTGAAGCCACTCCACTAGGAGGTATTCAAGCAGCCTCCACTGAGTCT
TGCAATCAGCAGTTGGACTTAGCACTCTGTAGAGCATATGAAGCTGCAGCATCAGCATTG
CAGATTGCAACTCACACTGCCTTTGTAGCTAAGGCTATGCAGGCAGACATTAGTCAAGCT
GCACAGATTCTTAGCTCAGATCCTAGTCGTACCCACCAAGCGCTTGGGATTCTGAGCAAA
ACATATGATGCAGCCTCATATATTTGTGAAGCTGCATTTGATGAAGTGAAGATGGCTGCC
CATACCATGGGAAATGCCACTGTAGGTCGTCGATACCTCTGGCTGAAGGATTGCAAAATT
AATTTAGCTTCTAAGAATAAGCTGGCTTCCACTCCCTTTAAAGGTGGAACATTATTTGGA
GGAGAAGTATGCAAAGTAATTAAAAAGCGTGGAAATAAACACTAG

Clone variation with respect to NM_003276.2

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003276 unedited
TTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTGTAGTGTGTGGGC
TGGGGTTGGTGCGAGCTTCCAGCTTGGCCGCAGTTGGTTCGTAGTTCGGCTCTGGGGTCT
TTTGTGTCCGGGTCTGGCTTGGCTTTGTGTCCGCGAGTTTTTGTTCCGCTCCGCAGCGCT
CTTCCCGGGCAGGAGCCGTGAGGCTCGGAGGCGGCAGCGCGGTCCCCGGCCAGGAGCAAG
CGCGCCGGCGTGAGCGGCGGCGGCAAAGGCTGTGGGGAGGGGGCTTCGCAGATCCCCGAG
ATGCCGGAGTTCCTGGAAGACCCCTCGGTCCTGACAAAAGACAAGTTGAAGAGTGAGTTG
GTCGCCAACAATGTGACGCTGCCGGCCGGGGAGCAGCGCAAAGACGTGTACGTCCAGCTC
TACCTGCAGCACCTCACGGCTCGCAACCGGCCGCCGCTCCCCGCCGGCACCAACAGCAAG
GGGCCCCCGGACTTCTCCAGTGACGAAGAGCGCGAGCCCACCCCGGTCCTCGGCTCTGGG
GCCGCCGCCGCGGGCCGGAGCCGAGCAGCCGTCGGCAGGAAAGCCACAAAAAAAACTGAT
AAACCCAGACCAGAAGATAAAGATGATCTAGATGTAACAGAGCTCACTAATGAAGATCTT
TTGGATCAGCTTGTGAAATACGGAGTGAATCCTGGTCCTATTGTGGGAACCACCAGNAAG
CTATATGAGAAAAAGCTTTTGAAACTGAGGGAACANGGNNACAGATCAAGATCTTCTACT
TCTCTGCCCCACATTCTTTCTCAGCAGAAATACAAGCAGAATGGNAGTATGATTCTGACA
GATCCNGTGCCNNTGAGAGGNNAAGAGAAGACACCCAGAGTGAGTCCCTAGGGATATGTT
CCTTTTCTGAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003276 unedited
ACCGCGGCCCGCATTCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTCAAATTTAACAACT
TTATTGAATTTGCAGAAGCATTCTACAGTAATACATTTTTAAAAAAACATAGCACTCAGT
AGGTACATGTATACATGTACATTTCAGAAGACAACAAATAAAATTACTCTCAGAAAGCTG
CAAAGATGGACACATATAATCTAAGAATGTGGTAATGGCCAGAGGGAGTACCCAAGAGAC
CATATTTTATTATGCTTAAGGCTACTACTTTCCACAATACCTCTGCAGTTAAGACTCTTA
ACTTACAATCACAGAAATGAAAACATGATAATACACTGCTTTATACAGACATACAGATAC
TGGGACATAGCATAATTTCTTATGGCTTAAAAAAATTTAATTTGCTTTTAAAGTCTATAT
TGCTAAACTTAACTTTCCACAAAATACAATATATCATGAAAGCAAAGTATTATTTTTTAA
AAGGCCCCATTATCTGACAAAATAGATGGTGAACATGCACTATCCCAGGATATCTATTAT
TATCCAAAGAAGTGTTTCTCAAAGTGTGGCCCATGGTACTGGCCCATGAATTGGTTGCTA
CCAGTCAATGAAGAGATAAATTACTTGCATCAGAGTGTAAATCAATACATTGCTTTAGCT
ATTAATAAAATTTTGCTAAAAAATCAAATCCTGTCATTGACCTAAAAAGATCTCTAGATT
TAAATTCTGGGGCATGCTTATCCTTGCCTGTGGATAAGTACCAGTTTGTAGACTTGTGCC
TTTGAGTTGCATTGATCTAGACTACCATGAATGATGTTGCAGACTTGATAAATAACAAGG
AAAGTAGGAAAATTGAGCCAAATATGGAACAGTTATGGAACGGGAAAGAATCTGAGATAA
AGTTTCAAAAGGACACCATCCTGTTCTTGATGTGGAAACAAAGGTTAAT

Restriction Sites: NotI-NotI

ACCN: NM_003276

Insert Size: 3870 bp

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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_003276.1, NP_003267.1
RefSeq Size:	2490 bp
RefSeq ORF:	2085 bp
Locus ID:	7112
UniProt ID:	P42166
Cytogenetics:	12q23.1
Domains:	LEM
Protein Families:	Stem cell - Pluripotency, Transmembrane
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 variant (1) encodes the longest isoform (alpha).

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