

Product datasheet for **SC308722**

LAP1 (LRRC7) (NM_020794) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAP1 (LRRC7) (NM_020794) Human Untagged Clone
Tag:	Tag Free
Symbol:	LAP1
Synonyms:	DENSIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308722 representing NM_020794. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGACCACCAAACGAAAAATCATCGGCCGCTCGTGCCATGCCGATGTTCCGAGGTGAAGAAGAAATC
 ATCTCAGTTTTAGATTACTCCCACTGCAGTCTTCAGCAGGTGCCAAAGGAGGTCTTTAACTTCGAACGA
 ACATTAGAGGAGCTTTATCTAGATGCCAATCAAATTGAAGAACTACCAAGCAATTGTTCAACTGTCAA
 GCTCTACGAAAACTAAGTATTCCTGATAACGACCTTTCAAATCTGCCAACCACTATTGCTAGTTTAGTT
 AATCTTAAAGAACTCGACATCAGTAAAAATGGTGTACAAGAATTTCCAGAAAACATAAAGTGCTGTAAG
 TGTTTAACAATTATTGAAGCCAGTGTCATCCCATTTCTAACTACCTGATGGCTTCACACAGCTCCTA
 AACCTGACCCAGCTCTACCTGAATGACGCCTTTCTGAATTTCTCCAGCCAATTTGGAAGACTTGTC
 AAATTGCGGATCTTGAGTTAAGAGAAAACTCACTTGAAAACTCTACCAAAGTCAATGCACAACTGGCC
 CAGTTGGAAGACTTGACCTAGGCAATAATGAATTCGGTGAGCTGCCTGAAGTTCTGGATCAAATACAA
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 ATGTTGGTATACCTGGATATGTCAAAAAACAGAATAGAAACAGTTGACATGGACATTTCTGGATGTGAA
 GCCCTTGAGGACCTCTTATTGTCATCCAATATGTTGCAACAATTCCTGATTCTATAGGACTTTTGAAA
 AAATAACAACCTCTAAAAGTAGATGACAATCAACTACAATGCTACCAATACAATTGGAATTTATCT
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 AGTCTTCGGACATTAGCAGTTGATGAGAATTTCTTCCAGAATTACCCAGAGAAATGGAAGTTGTAAG
 AATGTAACAGTCATGTCTCTACGCTCCAACAAATTAGAATTTCTTCTGAAGAGATTGGACAGATGCAG
 AAATAAGAGTCCTAAATTTGAGTGACAACAGATTGAAGAATTTACCATTTCTATTTACCAAACTTAAA
 GAGCTTGACGCTTTGTGGCTTTCTGACAATCAGTCCAAAGCCCTTATCCCTTTACAAACAGAAGCCCAT
 CCAGAAACAAAGCAAAGAGTATTGACTAACTACATGTTTCCCCAGCAGCCTCGTGGTGATGAAGATTTT
 CAGTCAGACAGTGACAGCTTTAACCTACACTGTGGGAAGAGCAGAGACAACAACGCATGACTGTTGCC
 TTTGAATTTGAAGACAAAAAGAAGATGACGAAAAATGCTGGGAAGTTAAGGATCTCTCTGCCAAGCC
 CCCTGGGAAGGGGCCAGCGTGGGATTACTCTCAACCTGCCAGACTGTCTGGCGATTGCTGCACACCA



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TGGGCCAGGTGTGATCAGCAGATCCAAGATATGCCCCGCCCCAGAATGACCCACAGCTGGCATGGGGT
 TGTATAAGTGGCCTCCAGCAGGAAAGGAGCATGTGTACTCCATTGCCAGTTGCAGCAATCCACCACT
 CTTCCCTCTCTAAGTGGCAGACAGGTTGAAATAAACCTAAACGATATCCAACCTCTTACCCAGAGGAT
 TTAAAGAATATGGTAAAACTGTGTTCAAAATTTGGTGGGTAAAGCCAAGCCATGGAGTGCCTGTTGAGAAT
 TCAATCCAACGTCTAACACGGAGCAAACTGTGAAAGAAAAATATGAACACAAGTGGCCGGTAGCCCCA
 AAGGAGATTACAGTGGAGGATTTCTTTGTTTCATCCAGCTAATGAAATGAGGATTGGGGAACCTCACCT
 TCATTAGCTGAGACCCCTCTGTACCCACCCAACTTGTCTGCTAGGGAAGGACAAAAAGAATCAACT
 GATGAGCTCTGAAGTTGACAAAACTCACTGTCTGAATAACAGTGTTTCTCAGGCATTTACTCAGACTAC
 TCGCCTTCCCAGGCTTCTCAGGATCCTCTAATACCCGGGTTAAAGTGGGGTCTTGCAGACAACAGCT
 AAAGATGCAGTACATAATTCTTTGTGGGTAACAGGATTGCACCATCTTCCACAGCCTCTTGATTCA
 AAGCCATTACTCAGCCAGCGGGAGGCTGTTCCCCAGGCAATATACCACAGCGTCTGACCGGTGCC
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 GAAACCACAGCCGAGAATGCCAACGTAATCCTCTCTTAAGTTCGAAATCTAGAAGCACATCTTCGCAT
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 GATTCCAATCCCAACAGGAGTCTTAGTAATGTCTTTTCTCAAAATCCACTGCCGCCGGAATCTTCTAAA
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 AACTATGCTTCTGGGAGTGATCACTTAGGAAGCCACGAACGACCGGATAAGATGCTGGGACCAGAGCAT
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 CCTCAAGGATCAGTGGAAGTGAAAGCCGAAAAGAGGATACCACCCCTTTTCAACACAATCCCGAGTAC
 GTGCAACAGGCCAGCAAAAACATCGCAAGGATTTGATTAGTCCTAGAGCTTACAGAGGATACCCACCG
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 AGCCAAGGGGCCAGGGCGGGCTTCTGAGAAGGGCCGACTCCCTGGTGAGCGCCACAGAAATGGCCATG
 TTTAGAAGGGTCAATGAGCCTCATGAGCTGCCCACTGATAGGTACGGCAGACCCCATATAGGGGA
 GGGCTGGATCGCCAAAGCAGCGTTACAGTACTGAGTCCAGTTCCTGAAAAGGAATGGCAGGTATGAA
 GATGAACACCCCTTCATATCAAGAAGTGAAGCTCAGGCGGGAAGTTTCCGGTAAAAACCTTACCCAA
 AGGAGGCCATTGTCTGCGAGAAGCTACAGTACAGAGAGTTACGGTGCCTCCCAACAGGCCAGTTTCA
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 AAGCCATCAGATAACAGTGATTTAAAGACGAGGCTACTCCTGTGAAGGGAGAGGAGAGCTGTGGTAAA
 ATGCCTGCAGACTGGAGACAACAGCTGCTTAGACATATAGAAGCTAGACGGTTAGACAGGAATGCTGCT
 TACAAACACAATACAGTTAACCTTGGCATGCTGCCCTATGGAGGTATTTAGCAATGCATGCAGGCAGA
 AGCATGACTTTAACTTGCAGACTAAGTCTAAATTTGATCATCAAGAACTACCTCTTCAAAAACCCCG
 TCCCAGCAAAGCAACATTTTAGACAATGGACAAGAAGTGTATCTCCTAGTGCCAATGGAATCCTTAT
 CCATTGGGAGGCGGGATGTACCTCCGGACACCTTACTAAGAAGGCAGGCAGCCACATCCAGACGTTG
 ATGGGGTCCCAAAGCCTTCAGCATCGCAGCCGGGAGCAGCAGCGTATGAAGGAAATATAACAAAGTG
 ACCATCCAGCAATTTTCACTCACCATTGCCTATTAGATCCCTCTTACAGGCCACCCGGGACCTCAG
 CCTGGACGGTGCTTAATCAAACTAAAGGGCAAAGGAGTATGGATGGATATCCAGAGCAGTTTGTGTG
 AGAATAGAAAAGAATCCTGGCCTTGGATTTAGTATCAGTGGTGAATAGTGGACAAGGAAATCCATTC
 AAACCTTCTGACAAGGTATCTTTGTTACTAGGGTTAGCCTGATGGGCCAGCATCAACCTACTGCAG
 CCTGGTGATAAGATCCTCAGGCAATGGACACAGTTTTGTACATATGGAACATGAAAAAGCTGTATTA
 CTACTGAAGAGTTTCCAGAACACAGTAGACCTAGTTATTCAACGTGAGCTTACTGTC**TA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: SgfI-MluI
ACCN: NM_020794
Insert Size: 4614 bp

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
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_020794.2
RefSeq Size:	6313 bp
RefSeq ORF:	4614 bp
Locus ID:	57554
UniProt ID:	Q96NW7
Cytogenetics:	1p31.1
Domains:	PDZ, LRR, LRR_TYP, LRR_BAC, LRR_PS
MW:	172.6 kDa
Gene Summary:	Required for normal synaptic spine architecture and function. Necessary for DISC1 and GRM5 localization to postsynaptic density complexes and for both N-methyl D-aspartate receptor-dependent and metabotropic glutamate receptor-dependent long term depression. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longer isoform (1).