

## Product datasheet for **SC327601**

### **PLEKHN1 (NM\_001160184) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PLEKHN1 (NM_001160184) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLEKHN1
Synonyms:	CLPABP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001160184, the custom clone sequence may differ by one or more nucleotides

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ATGGGGAACAGCCACTGTGTCCCTCAGGCCCCAGGAGGCTCCGGGCTCCTTCTCCAGA
AAGCCCTCGTGAAGGGAACAGAGAGGACAGCGCGGATGTCGGCCGGCTGCCGGGC
CCCGAGGCTGCTGAAGCGGGGACGCCGCCCAACAAGCTCTTCCACTACATCCCGGC
ACGGACATCCTGGACCTGGAGAACCAGCGAGAAAACCTGGAGCAGCCATTCTGAGTGTG
TTCAAGAAGGGGCGGGAGGGTGCCTGTGAGGAACCTGGGAAAAGTTGTGCATTACGCC
AAGGTCCAGCTGCGGTTCCAGCACAGCCAGGATGTCAGCGACTGTACCTGGAGCTATTC
CCGCCCCACCTGTACTTCCAGGCCACGGCTCGGAAGGACTCACATTTACGGGGTGTTA
CCGCTGACGGAGCTGAGTGTCTGCCGCTCGAGGGGTCCCAGAGCACGCCTTCCAGATC
ACAGGCCCACTGCCCGCACCCCTCCTGGTGTCTGCCAGCCGGGCGGAGCTGGACCGC
TGGCTTTACCACCTGGAGAAGCAGACGGCCCTCCTCGGGGGCCGCGGCTGCCACTCG
GCACCCACAGGGTCTGCGGAGACGAACCTCCCTGGACTTTGCAGCGCCGTAAACC
CGGCTGCGGACGGCGTCAGGGCACGAACCCGGCGCAGTGTGTGTGCCTCGAGGGTC
AAGCTGCAGCACCTGCCGCACAGGAGCAGTGGGACCGGCTTTGGTCTGTACCCAACG
TCCTTGGCCATTTCTCCGAGGAGCTGGACGGGCTTTGCTTCAAGGGGAGCTCCCACTC
CGTGCCGTCCACATCAACCTGGAGGAGAAGGAGAAGCAGATCCGCTCCTTCTGATTGAA
GGCCCCCTCATCAACACCATCCGCGTGGTGTGCCAGCTACGAGGACTACGGTCACTGG
CTGCTGTGCCTTCGCGTGTACCCACAGGGAGGGGGCCCGCGCTGCCTGGTGCCGAG
AGCTTCCCAGGGTCGACAGTTATGGGCAGTGGCCGAGGCTCACTCCTCAGGCGGACAG
ACCAGCTGGGACTCGGGTGTCTGGCGCCCCCTCCACCCGACACAGCCACTCCCTGCCT
GAGTCTCAGTGCCATCCACCGTGGGCTGCTCCTCCAGCACACCCGCTGCACAGGCTG
AGCTGGAGAGCAGCCAGATGCCCTGACCACACTTCGGAACATCACACTCGCCCTC
TATGCCGACCCCTACACACCACCCGCCACCTCCACCCGAGGGTACAGATGTCCGGGGC
CTGGAGGAGTTCCTCAGTGCCATGCAGAGTGCAGTGGACCCACGCCCTCGAGCCCACTC
CCCTCGGTGCCTGTGTCTGTGCCTGTGACCTCGCTCCTGTCTCCGGCCCCGCT
GGCCCTACTTGTCTCCAAGAAGGGAGCCCTGCAGTCCAGAGCCGCTCAGAGACACCGG
GGCTCAGCAAGGATGGGGGGCCGAGCCCCAGACGCCCTCAGCTTGTCTCCTCTGCC
AGGGAAGTTCCGCCAACCCCTGGCTGCCTGTGACAGATGGTCCGTCGCCAGGAGGAGC
CGGGACCCCGGCTACGACCACCTCTGGGACGAGACTTTGTCTTCTCCACCAAGTGC
CCCCAGCTTGAGGGCCTGAGGCCAGTGGGGGCTTGTGCAGTGGATC

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001160184
- 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\\_001160184.1](#), [NP\\_001153656.1](#)

**RefSeq Size:** 2299 bp

**RefSeq ORF:** 1731 bp

**Locus ID:** 84069

**UniProt ID:** [Q494U1](#)

**Cytogenetics:** 1p36.33

**Gene Summary:** Controls the stability of the leptin mRNA harboring an AU-rich element (ARE) in its 3' UTR, in cooperation with the RNA stabilizer ELAVL1 (PubMed:29180010). Decreases the stability of the leptin mRNA by antagonizing the function of ELAVL1 by inducing its atypical recruitment from the nucleus to the cytosol (By similarity). Binds to cardiolipin (CL), phosphatidic acid (PA), phosphatidylinositol 4-phosphate (PtdIns(4)P) and phosphatidylserine (PS) (PubMed:18191643). Promotes apoptosis by enhancing BAX-BAK hetro-oligomerization via interaction with BID in colon cancer cells (PubMed:29531808) (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform b which is shorter than isoform a.