

Product datasheet for **RG223977**

PLEKHN1 (NM_032129) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PLEKHN1
Synonyms:	CLPABP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG223977 representing NM_032129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGAACAGCCACTGTGTCCCTCAGGCCCCAGGAGGCTCCGGGCTCCTTCTCCAGAAAGCCCTCGC
 TGAAGGGAACAGAGAGGACAGCGCGCGGATGTCGGCCGGCTGCCGGGCCCCGAGGCTGCTCGAAGCGG
 GGACGCCGCCGCCAACAGCTCTTCCACTACATCCCGGCACGGACATCCTGGACCTGGAGAACCAGCGA
 GAAAACCTGGAGCAGCCATTCTGAGTGTGTTCAGAGGGGGCGGGAGGGTGCCTGTGAGGAACCTGG
 GAAAAGTTGTGCATTACGCCAAGGTCCAGCTTCGGTTCCAGCACAGCCAGGATGTCAGCGACTGCTACCT
 GGAGCTATTCCCCGCCACCTGTACTTCCAGGCCACGGCTCGGAAGGACTCACATTTAGGGGCTGTTA
 CCGCTGACGGAGCTGAGTGTCTGCCGCTCGAGGGTCCGAGAGCAGCCTTCCAGATCACAGGCCAC
 TGCCCCCACCCTCCTGGTGTCTGCCCGACGGGCCGAGCTGGACCGTGGCTTTACCACCTGGAGAA
 GCAGACGGCCCTCCTCGGGGGCGCGGCGCTGCCACTCGGCACCCCCACAGCGCCGTCTAACCCGGCTG
 CGGACGGCGTCAGGGCACGAACCCGGCGGCACTGCTGTCTGTGCCTCGAGGGTCAAGCTGCAGCACCTGC
 CCGCACAGGAGCAGTGGGACCGGCTCTTGGTCTGTACCCAACGTCTTGGCCATTTTCTCCGAGGAGCT
 GGACGGGCTTTGCTTCAAGGGGAGCTCCCACTCCGTGCCGTCCACATCAACCTGGAGGAGAAGGAGAAG
 CAGATCCGCTCCTTCTGATTGAAGGCCCTCATCAACACCATCCGCGTGGTGTGCCCAGCTACGAGG
 ACTACGGTCACTGGCTGCTGTGCCTTCGCGCTGTCACCCACAGGGAGGGGGCCCCGCGCTGCCTGGTGC
 CGAGAGCTTCCAGGGTCGAGGTTATGGGCACTGGCCGAGGCTCACTCTCCTCAGGCGACAGACCAGC
 TGGGACTCGGGGTGCTTGGCGCCCCCTCCACCCGACCCAGCCACTCCCTGCCTGAGTCTCAGTGCCAT
 CCACCGTGGGCTGCTCCTCCAGCACACACCGGACCCAGGCCAACTCTGACCGTGCCAGCATTTGGCCGACG
 GAGGACCGAGCTGAGACGAGTGGCAGCAGCCGGTCAACCGGAGCAAGGCCCGGGCAGAGGGCCGCGGC
 CCTGTACCCCACTGCACCTGGACCTGACCCAGCTGCACAGGCTGAGCCTGGAGAGCAGCCAGATGCC
 CTGACCACACTTCGGAACATCACACTCGCCCCCTATGCCGACCCTACACACACCCGCCACCTCCCA
 CCGCAGGGTCACAGATGTCGGGGCTGGAGGAGTTCTCAGTGCCATGCAGAGTGCACCTGGACCCACG
 CCCTCGAGCCCACTCCCTCGGTGCCTGTGTCTGTGCCTGCCTCTGACCTCGCTCCTGCTCCTCCGCGC
 CCGCTGGCCCTACTTGTCTCCAAGAAGGGAGCCCTGCAGTCCAGAGCCGCTCAGAGACACCGGGGCTC
 AGCCAAGGATGGGGGGCCGAGCCCCAGACGCCCTCAGCTTGTCTCCTGCGCAGGAAGGTTGCGCC
 GAACCTGGTGCCTCTGACAGATGGTGGTCCCCAGGAGAGCCGGGACCCCGGCTACGACCACCTCT
 GGGACGAGACTTTGTCTTCTCCACCAGAAGTCCCCCAGCTTGAGGGCCTGAGGCCAGTGGGGGCT
 TGTGCACTGGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223977 representing NM_032129
 Red=Cloning site Green=Tags(s)

MGNSHCVQAPRRLRASF SRKPSLKG NREDSARMSAGLPGEAARS GDAAANKLFHYIPGTDILDLENQR
 ENLEQPF LSVFKGRRRVPVRNLGKV VHYAKVQLRFQHSQDVSDCYLEL FPAHLYFQA HSGELTFQGLL
 PLTEL SVCPLEGSR EHAHQITG LPAPLLVL CPSRAELDRWLYHLEKQTALLGGPRRCHSAPPQRRRLTRL
 RTASGHEPGGSAVCASRVKLQHLPAQE QWDRLLVLYPTSLAIFSEELDGLCFKGELPLRAVHINLEEKEK
 QIRSF LIEGPLINTIRVVCASYEDYGHWLLCLRAVTHREGAPPLPGAESFPGSQVMGSGRGLSSSGQTS
 WDSGCLAPPSTR TSHLPES SVPSTVGCSSQHTPDQANS DRASIGRRRTELRRSGSSRSPGSKARAEGRG
 PVTPLHDLTQLHRLSLESSPDAPDHTSETSHSPLYADPYTPPATSHRRVTDVRGLEEF LAMQSAPGPT
 PSSPLPSVPVSPASDPRSCSSGPAGPYLLSKKGALQSRAAQRHRGSAKDGGPQPPDAPQLVSSAREGSP
 EPWLPLTDGRSPRRSRDPGYDHLWDETLSSSHQKCPQLGGPEASGGLVQWI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032129

ORF Size: 1833 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.

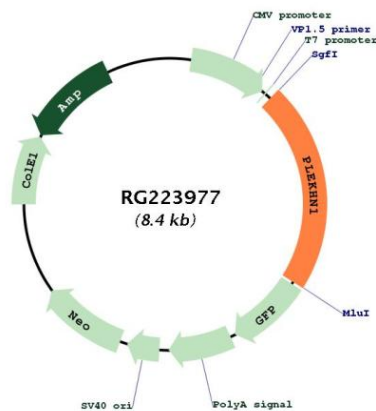
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032129.1](#), [NP_115505.1](#)

RefSeq Size: 2418 bp
 RefSeq ORF: 1836 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 hetero-oligomerization via interaction with BID in colon cancer cells (PubMed:29531808) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG223977