

## Product datasheet for **MC223130**

### Plekha7 (BC084587) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plekha7 (BC084587) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plekha7
Synonyms:	A430081P20Rik; AI414265
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC084587 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGAAGCCAGAGAGAAACCAAGACCGTCCAGCATGGTCAGTGAGACATCCACAGCTGGGACCACGT  
CCACCCTGGAGGCCAAGCCTGGACCCAAGATTGTCAAGTCCAGCAGTAAAGTGCACAGCTTCGGGAAGAG  
GGACCAGGCCATTCGGAGGAACCTTAATGTTCCGGTGGTGGTGGGGCTGGCTACACAAGCAGGACAGC  
TCCGGGATGAGGCTGTGAAAAGACGCTGGTTTGTGCTGGCTGATTACTGCTGTTTTATTATAAGACA  
GCCGAGAGGAAGCTGTTCTCGGGAGCATCCCTCTGCCAGCTATGTCATCTCCCCAGTGGCCCCAGAGGA  
TCGAATAAGCCGCAAGTATTCTTTAAGGCTGTGCATACGGGATGAGGGCACTCATCTACAGCACCACC  
ACAGCGGGCTCTCAGATGGAGCACTCGGGCATGAGGACCTACTACTTCAGTGCCGACACCCTGGAGGACA  
TGAACGCCTGGGTCAAGGCCATGAACCAGGCTGCGCAGGTGCTGTCTCGCTCATCGTGGAGGAGGACGT  
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AGGAGGAGGAACGCTTCCGTGCTCAAAGAGACCCACTGGAGGGCAGGAGGGACAGGAGCAAGGCCAGGTC  
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AGGACAGGATCCGTACGGCAGCCCCACCGACCCATAGGAGCTGGCTCCCGAGGTTCCCGAGCAGG  
GTCGACGCGGAGCCTGCTGGAGGTGCCCGCTCCATCTCCGTGCTCCGTCTCCTTCTGACATCCCTCC  
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CCCGAGCAGAGGAGGAGTGTGGACATCTCTCTGGGGGTCTCCCAGGAAGGCACGGGGTCATGCTGCCA
AGAACTCTCTCACGTGGACCGGCTTCCATGCCCTCCATGGGCTACATGACCCATACAGTGAGCGCTCC
CAGCTTACATGGAAAATCGGCTGATGACACCTACCTCCAGCTGAAGAAGGACCTGGAGTATCTGGATCTG
AAGATGACAGGCCGAGACCTTCTTAAAGATCGAAGTCTGAAGCCCATGAAGATCGCCGAGAGTGACATTG
ATGTCAAGCTGAGCATCTTCTGTGAGCAAGACAGGATACTCCAGGACTTGAAGACAAGATCCGAGCTCT
CAAGGAGAATAAAGATCAGCTAGAATCCGTGCTGGAGGTGCTGCACAGGCAGACAGAAGTACCCGAGAC
CAGCCACAGCACCTGGAGAAGTCACTTGCCAGCAGAGGCTCCTGCAGGAGGACCTCGTCCACATCCGTG
CGGAGCTCTGCAGAGAGTCCACGGAGATGGAAAATGCATGGAACGAGTACCTGAAGCTGGAGAAGGATGT
GGAGCAGCTAAAGCAGACCCTGCAGGAGCAACACAGGAGAGCCTTTTTTTTCCAGGAGAAGTCTCAGATA
CAGAAGGATCTGTGGAGGATCGAAGATGTCATGGCAGGCCTGAGTGCGAATAAAGAGAACTACAGAGTCC
TGGTGGGATCTGTCAAAAATCCAGAAAGAAAACGGTGCCTTTGTCCCTCACCCATCTGTGCCTTCACT
CTCTCCAAGTGCAGCAAGCCGGCCCTGCAGCCCAGCCCTCCACCAGCCCCGTGCGGACGCCTCTGGAG
GTCCGACTCTTCCGAGCTGCAGACCTATGTGCCATACCGACCTCACCCGCCAGCTGAGGAAAGTGA
TGTCTCCTCTGCAGTACCAACCAAGGCAAGCCCTCAGGCGGAAGACGAGGCACCTCCAGGCCACCACT
TCCTGAACTCTACAGCCCAGAGGACCAGCCCCAGCTGTGCCACCACTGCCGAGAGAAGCCACCATCATT
CGGCACACATCTGTGCGTGGACTCAAACGACAGTCGGATGAGAGGAAGAGGGACCGGAGCAGGGCCAGT
GTGTGAATGGGGACTTGAAGGTGGAGCTCCGGTCTACGTGAGTGAGCCAGAGCTGGCCAGCCTCAGTGG
GGACGTGCCTCAGCCCTCCTTGAGCCTCGTGGGCTCTGAGAGCAGGTACCAGACGCTGCCAGGCAGAGGG
CTCTCAGGCTCCACGTCCAGGCTCCAGCAGTCTCCACCATGCTCCCTATGTCACACTCCGGAGGGGGC
TGAATGCCGAAAACAGCAGTGCAGCCTTCTTAGACCCAAAGAGTGCCTTGGAGCGTCTGTACTCGGGGA
CCACCAGCGGGCAAGATGAGTGCGGAGGAACAGCTGGAGCGGATGAAGCGGCACCAGAAGGCTCTGGTC
CGAGAGCGCAAGAGGACCCTGAGCCAAGGAGAAAAGACGGGTCTGCTCTCAGCCCGATACCTCAGCCAGC
CACTGCCAGGAGATCTCGGCTCAGTATGTTAG

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ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** BC084587
- Insert Size:** 3042 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).
- 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:** [BC084587](#), [AAH84587](#)
- RefSeq Size:** 4537 bp
- RefSeq ORF:** 3041 bp

Locus ID: 233765

Cytogenetics: 7 F1

Gene Summary: Required for zonula adherens biogenesis and maintenance. Acts via its interaction with KIAA1543/Nezha, which anchors microtubules at their minus-ends to zonula adherens, leading to the recruitment of KIFC3 kinesin to the junctional site (By similarity).  
[UniProtKB/Swiss-Prot Function]