

Product datasheet for **SC127300**

Kindlin 2 (FERMT2) (NM_006832) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kindlin 2 (FERMT2) (NM_006832) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kindlin 2
Synonyms:	KIND2; mig-2; MIG2; PLEKHC1; UNC112; UNC112B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC127300 representing NM_006832.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCTCTGGACGGGATAAGGATGCCAGATGGCTGCTACGCGGACGGGACGTGGAACTGAGTGTCCAT
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GATGAAGAGATGTTCTACAACTTACCAGTGGTTGGGTGTA
ACGCGTACGCGGCCGCTCGAGCAGAAACTATCTCAGAAAGGATCTGGCAGCAAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_006832

Insert Size: 2043 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: [NM_006832.2](#)

RefSeq Size: 3351 bp

RefSeq ORF: 2043 bp

Locus ID: 10979

UniProt ID: [Q96AC1](#)

Cytogenetics: 14q22.1

MW: 77.9 kDa

Gene Summary: Scaffolding protein that enhances integrin activation mediated by TLN1 and/or TLN2, but activates integrins only weakly by itself. Binds to membranes enriched in phosphoinositides. Enhances integrin-mediated cell adhesion onto the extracellular matrix and cell spreading; this requires both its ability to interact with integrins and with phospholipid membranes. Required for the assembly of focal adhesions. Participates in the connection between extracellular matrix adhesion sites and the actin cytoskeleton and also in the orchestration of actin assembly and cell shape modulation. Recruits FBLIM1 to focal adhesions. Plays a role in the TGF β 1 and integrin signaling pathways. Stabilizes active CTN NB1 and plays a role in the regulation of transcription mediated by CTN NB1 and TCF7L2/TCF4 and in Wnt signaling. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the predominant transcript and encodes isoform 1.