

## Product datasheet for **SC326127**

### Kindlin 2 (FERMT2) (NM\_001135000) Human Untagged Clone

#### Product data:

|               |  |
|---------------|--|
| Product Type: | Expression Plasmids                                    |
| Product Name: | Kindlin 2 (FERMT2) (NM_001135000) Human Untagged Clone |
| Tag:          | Tag Free   |
| Symbol:       | FERMT2   |
| Synonyms:     | KIND2; mig-2; MIG2; PLEKHC1; UNC112; UNC112B           |
| Vector:       | <u>pCMV6 series</u>                                    |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001135000, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCTGGACGGGATAAGGATGCCAGATGGCTGCTACGCGGACGGGACGTGGGAACTG
AGTGTCCATGTGACGGACCTGAACCGGATGTCACCCTGAGAGTGACCGGCGAGGTGCAC
ATTGGAGGCGTGATGCTTAAGCTGGTGGAGAACTCGATGTAAAAAAGATTGGTCTGAC
CATGCTCTCTGGTGGGAAAAGAAGAACTTGGCTTCTGAAGACACATTGGACCTTAGT
AAGTATGGTATTACGGCAGATGCTAAGCTTCAGTTCACCCCTCAGCACAACCTGCTCCGC
CTGCAGCTTCCCAACATGAAGTATGTGAAGGTGAAAGTGAATTTCTGTATAGAGTCTTC
AAAGCTGTTTCTGACATCTGTAAGACTTTTAATATCAGACACCCCGAAGAAGCTTTCTCTC
TTAAAGAAACCCAGAGATCCAACAAAGAAAAAAGAAGAAGCTAGATGACCAGTCTGAA
GATGAGGCACTTGAATTAGAGGGCCTCTTACTACTCCTGGATCAGGAAGTATATATTCA
AGCCCAGGACTGTATAGTAAACAATGACCCCACTTATGATGCTCATGATGGAAGCCCC
TTGTCACCAACTTCTGCTTGGTTTGGTGACAGTCTTTGTCAGAAGGCAATCCTGGTATA
CTTGCTGTGAGTCAACCAATCACGTACCAGAAATCTTGGCAAAAATGTTCAAGCCTCAA
GCTCTTCTTGATAAAGCAAAAATCAACCAAGGATGGCTTGATTCTCAAGATCTCTCATG
GAACAAGATGTGAAGGAAAATGAGGCCTTGTGCTCCGATTCAAGTATTACAGCTTTTTT
GATTTGAATCCAAGTATGATGCAATCAGAATCAATCAGCTTTACGAGCAGGCCAAATGG
GCCATTCTCCTGGAAGAGATTGAATGCACAGAAGAAGAAATGATGATGTTTGACGCCCTG
CAGTATCATATCAATAAGCTGTCAATCATGACATCAGAGAATCATTTGAACAACAGTGAC
AAAGAAGTTGATGAAGTTGATGCTGCCCTTTCAGACCTGGAGATTACTCTGGAAGGGGT
AAAACGTCAACAATTTTGGGTGACATTACTTCCATTCTGAACTTGTGACTACATTTAAA
GTTTTCAAGCCAAAAAGCTGACTCTGAAAGGTTACAAACAATATTGGTGCACCTTCAA
GACACATCCATTTCTTGTATAAGAGCAAAAGAAGATCCAGTGGCACACCAGCTCATCAG
ATGAACCTCAGGGGATGTGAAGTTACCCAGATGTAACATTTACAGCCAAAAATTTAAC
ATTAAACTCCTGATTCCAGTTGCAGAAGGCATGAATGAAATCTGGCTTCGTTGTGACAAT
GAAAAACAGTATGCACACTGGATGGCAGCCTGCAGATTAGCCTCCAAAGGCAAGACCATG
GCGGACAGTTCCTTACAACCTAGAAGTTCAGAATATTCTTTCTTTCTGAAGATGCAGCAT
TTAAACCCAGATCCTCAGTTAATACCAGAGCAGATCACGACTGATATAACTCCTGAATGT
TTGGTGTCTCCCCGCTATCTAAAAAAGTATAAGAACAAGCAGCCAGGCTATATAAGAGAT
TTGATAACAGCGAGAATCTTGGAGGCCATCAGAATGTAGCTCAGATGAGTCTAATTGAA
GCCAAGATGAGATTTATTCAAGCTTGGCAGTCACTACCTGAATTTGGCATCACTCACTTC
ATTGCAAGGTTCCAAGGGGGCAAAAAGAAGAACTTATTGGAATTGCATACAACAGACTG
ATTCGGATGGATGCCAGCACTGGAGATGCAATTAACATGGCGTTTCAGCAACATGAAA
CAGTGGAAATGTCAACTGGGAAATCAAAATGGTAAACTCA

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001135000
- 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\\_001135000.1](#), [NP\\_001128472.1](#)

**RefSeq Size:** 2161 bp

**RefSeq ORF:** 1902 bp

**Locus ID:** 10979

**UniProt ID:** [Q96AC1](#)

**Cytogenetics:** 14q22.1

**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 TGFB1 and integrin signaling pathways. Stabilizes active CTNNA1 and plays a role in the regulation of transcription mediated by CTNNA1 and TCF7L2/TCF4 and in Wnt signaling. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) contains an additional in-frame coding exon and is missing the 3' terminal exon compared to variant 1. This results in a shorter isoform (3) with a distinct C-terminus and an internal 7 aa segment missing in isoform 1.