

Product datasheet for **SC326174**

Kindlin 2 (FERMT2) (NM_001134999) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kindlin 2 (FERMT2) (NM_001134999) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kindlin 2
Synonyms:	KIND2; mig-2; MIG2; PLEKHC1; UNC112; UNC112B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001134999 edited
 GGGTGGAGCGCGGGGAGCCAGGCCAGGGGCCGCGACGACGGGACTCCATTAGCCGCTCCG
 GCCACAGGCAGCGCTTCGCCAGCCGAGGAACCGGACGCGGACACCGCCGCCCGCGAGCC
 TCCAGCCCCTCGCTGTTGCCGCGGAGTCCCAGGGCCGAGCGCTAGGAGCGCGCGGAA
 GGAGCCATGGCTCTGGACGGGATAAGGATGCCAGATGGCTGCTACGCGGACGGGACGTGG
 GAACTGAGTGTCCATGTGACGGACCTGAACCGCATGTCACCTGAGAGTGACCGCGGAG
 GTGCACATTGGAGCGTGATGCTTAAGCTGGTGGAGAACTCGATGTAAAAAAGATTGG
 TCTGACCATGCTCTGTGGTGGGAAAAGAAGAGAAGCTTGGCTTCTGAAGACACATTGGACC
 TTAGATAAGTATGGTATTAGGACAGATGCTAAGCTTCACTTACCCTCAGCACAAAAGT
 CTCGCGCTGCAGCTTCCCAACATGAAGTATGTGAAGGTGAAAGTGAATTTCTCTGATAGA
 GTCTTCAAAGCTGTTTCTGACATCTGTAAGACTTTAATATCAGACACCCGAAGAAGT
 TCTCTCTAAAGAAACCCAGAGATCCAACAAGAAAAAAGAAGAAGTATGACCAG
 TCTGAAGATGAGGCACTGAATTAGAGGGGCTTATCACTCCTGGATCAGGAAGTATA
 TATTCAAGCCCAGGACTGTATAGTAAACAATGACCCCACTTATGATGCTCATGATGGA
 AGCCCCCTGTACCAACTTCTGCTTGGTTGGTGACAGTCTTTGTCAGAAGGCAATCCT
 GGTATACTTGCTGTCAGTCAACCAATCAGTCAACAGAAATCTTGGCAAAAATGTTCAAG
 CCTCAAGCTCTTCTGATAAAGCAAAAATCAACCAAGGATGGCTTGATTCTCAAGATCT
 CTCATGGAACAAGATGTGAAGGAAAATGAGGCCTTGCTGCTCCGATTCAAGTATTACAGC
 TTTTTGATTTGAATCCAAAGTATGATGCAATCAGAATCAATCAGCTTTATGAGCAGGCC
 AAATGGGCCATTTCTCTGGAAGAGATTGAATGCACAGAAGAAGAATGATGATGTTTGCA
 GCCCTGCAGTATCATATCAATAAGCTGTCAATCATGACATCAGAGAATCATTTGAACAAC
 AGTGACAAAGAAGTTGATGAAGTTGATGCTGCCCTTTCAGACCTGGAGATTACTTGAA
 GGGGTAAAACGTCAACAATTTGGGTGACATTACTTCCATTCCGAACTTGCTGACTAC
 ATTTAAAGTTTTCAAGCCAAAAAGCTGACTCTGAAAGGTTACAAACAATATTGGTGACCC
 TTCAAAGACACATCCATTTCTTGTATAAAGAGCAAGAAGAATCCAGTGGCACACCAGCT
 CATCAGATGAACCTCAGGGGATGTGAAGTTACCCAGATGTAACATTTCAAGCCAAAAA
 TTTAACATTAACCTCCTGATTCCAGTTGCAGAAGGCATGAATGAAATCTGGCTTCGTTGT
 GACAATGAAAAACAGTATGCACACTGGATGGCAGCCTGCAGATTAGCCTCCAAAGGCAAG
 ACCATGGCGGACAGTTCTTACAACCTAGAAGTTCAGAATATTCTTCTTCTGAAAGATG
 CAGCATTTAAACCCAGATCCTCAGTTAATACCAGAGCAGATCACGACTGATATAACTCCT
 GAATGTTTGGTGTCTCCCGCTATCTAAAAAGTATAAGAACAAGCAGCCAGGCTATATA
 AGAGATTTGATAACAGCGAGAATCTTGGAGGCCATCAGAATGTAGCTCAGATGAGTCTA
 ATTGAAGCCAAGATGAGATTTATTCAAGCTTGGCAGTCACTACCTGAATTTGGCATCACT
 CACTTCATTGCAAGGTTCCAAGGGGGCAAAAAGAAGAAGTATTGGAATTGCATACAAC
 AGACTGATTCCGATGGATGCCAGCACTGGAGATGCAATTAACAATGGCGTTTCAGCAAC
 ATGAAACAGTGGAAATGTCAACTGGGAAATCAAAATGGTCAACCGTAGAGTTTGAGATGAA
 GTACGATTGCTCTCATTGTACTGAAGTAGATTGCAAAGTGGTTCATGAATTCATTGGT
 GGCTACATATTTCTCAACACGTGCAAAAGACCAAAACGAGAGTTTAGATGAAGAGATG
 TTCTACAAACTTACCAGTGGTTGGGTGTAATAGAAATACTGTTAATGAAACTCCAGG
 CCATAACAATATTTAACTTTAAAAGCTGTTTGTATATGCTGCTTAATAAAGTAAGCTTG
 AAATTTA

Restriction Sites: Please inquire
ACCN: NM_001134999
Insert Size: 2300 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).

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:	<ol style="list-style-type: none">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:	<u>NM_001134999.1</u> , <u>NP_001128471.1</u>
RefSeq Size:	3372 bp
RefSeq ORF:	2064 bp
Locus ID:	10979
UniProt ID:	<u>Q96AC1</u>
Cytogenetics:	14q22.1
Gene Summary:	<p>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 CTNNB1 and plays a role in the regulation of transcription mediated by CTNNB1 and TCF7L2/TCF4 and in Wnt signaling. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) contains an additional in-frame coding exon compared to variant 1, resulting in a longer isoform (2) with an internal 7 aa segment missing in isoform 1.</p>