

Product datasheet for **SC320413**

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-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006832.1
 GGGTGGAGCGCGGGGAGCCAGGCCAGGGGCCGCGACGACGGGACTCCATTAGCCGCTCCG
 GCCACAGGCAGCGCTTCGCCAGCCGAGGAACCGGACGCGGACCCGCCGCCCGCGAGCC
 TCCAGCCCCTCGCTGTTGCCGCGGAGTCCCAGGGCCGAGCGCTAGGAGCGCGCGGAA
 GGAGCCATGGCTCTGGACGGGATAAGGATGCCAGATGGCTGCTACGCGGACGGGACGTGG
 GAACTGAGTGTCCATGTGACGGACCTGAACCGCATGTCACCCTGAGAGTGACCGGCGAG
 GTGCACATTTGGAGCGGTGATGCTTAAGCTGGTGGAGAACTCGATGTAAAAAAGATTGG
 TCTGACCATGCTCTGTGGTGGGAAAAGAAGAGAAGCTTGGCTTCTGAAGACACATTGGACC
 TTAGATAAGTATGGTATTAGGACAGATGCTAAGCTTCACTTACCCTCAGCACAAAAGT
 CTCGCGCTGCAGCTTCCCAACATGAAGTATGTGAAGGTGAAAGTGAATTTCTCTGATAGA
 GTCTTCAAAGCTGTTTCTGACATCTGTAAGACTTTAATATCAGACACCCCGAAGAACTT
 TCTCTCTAAAGAAACCCAGAGATCCAACAAGAAAAAAGAAGAGCTAGATGACCAG
 TCTGAAGATGAGGCACTTGAATTAGAGGGGCTTATCACTCCTGGATCAGGAAGTATA
 TATTCAAGCCCAGGACTGTATAGTAAACAATGACCCCACTTATGATGCTCATGATGGA
 AGCCCCCTGTACCAACTTCTGCTTGGTTGGTGACAGTCTTTGTCAGAAGGCAATCCT
 GGTATACTTGCTGTCAGTCAACCAATCAGTCAACAGAAATCTTGGCAAAAATGTCAAG
 CCTCAAGCTCTTCTGATAAAGCAAAAATCAACCAAGGATGGCTTGAATCCTCAAGATCT
 CTCATGGAACAAGATGTGAAGGAAAATGAGGCCTTGTGCTCCGATTCAAGTATTACAGC
 TTTTTGATTTGAATCCAAAGTATGATGCAATCAGAATCAATCAGCTTTATGAGCAGGCC
 AAATGGGCCATTTCTCTGGAAGAGATTGAATGCACAGAAGAAGAAATGATGATGTTTGCA
 GCCCTGCAGTATCATATCAATAAGCTGTCAATCATGACATCAGAGAATCATTTGAACAAC
 AGTGACAAAGAAGTTGATGAAGTTGATGCTGCCCTTTGACACCTGGAGATTACTTGGAA
 GGGGTAAAACGTCAACAATTTGGGTGACATTACTTCCATTCCCTGAACCTTGTGACTAC
 ATTAAGTTTTTCAAGCAAAAAAGCTGACTCTGAAAGGTTACAAACAATATTGGTGCACC
 TTCAAAGACACATCCATTTCTTGTATAAGAGCAAAAGAAGTCCAGTGGCACACCAGCT
 CATCAGATGAACCTCAGGGGATGTGAAGTTACCCAGATGTAACATTTCAAGCCAAAAA
 TTTAACATTAACCTCTGATTCCAGTTGCAGAAGGCATGAATGAAATCTGGCTTCGTTGT
 GACAATGAAAAACAGTATGCACACTGGATGGCAGCCTGCAGATTAGCCTCCAAAGGCAAG
 ACCATGGCGGACAGTTCTTACAACCTAGAAGTTTCAAGTATTCTTTCTTCTGAAGATG
 CAGCATTTAAACCCAGATCCTCAGTTAATACCAGAGCAGATCACGACTGATATAACTCCT
 GAATGTTTGGTGTCTCCCGCTATCTAAAAAGTATAAGAACAAGCAGATAACAGCGAGA
 ATCTTGGAGGCCATCAGAATGTAGCTCAGATGAGTCTAATTGAAGCCAAGATGAGATTT
 ATCAAGCTTGGCAGTCACTACCTGAATTTGGCATCACTCACTTATTGCAAGGTTCCAA
 GGGGGCAAAAAGAAGAACTTATTGGAATTGCATACAACAGACTGATTCGGATGGATGCC
 AGCACTGGAGATGCAATTAACCATGGCGTTTCAGCAACATGAAACAGTGGAAATGTCAAC
 TGGGAAATCAAAATGGTCAACCGTAGAGTTTGCAGATGAAGTACGATTGTCCTTCAATTTGT
 ACTGAAGTAGATTGCAAAGTGGTTCATGAATTCATTGGTGGCTACATATTTCTCTCAACA
 CGTGCAAAAGACCAAAACGAGAGTTTAGATGAAGAGATGTTCTACAAACTTACCAGTGGT
 TGGGTGTGAATAGAAATACTGTTAATGAAACTCCACGGCCATAACAATATTTAACTTTA
 AAAGCTGTTTGTATATGCTGCTTAATAAAGTAAGCTTGAATTTAAAAA
 AAAAAA

Restriction Sites: Please inquire

ACCN: NM_006832

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:	NM_006832.1 , NP_006823.1
RefSeq Size:	3226 bp
RefSeq ORF:	2043 bp
Locus ID:	10979
UniProt ID:	Q96AC1
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 (1) represents the predominant transcript and encodes isoform 1.</p>