

Product datasheet for **RG226092**

Kindlin 2 (FERMT2) (NM_001134999) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kindlin 2 (FERMT2) (NM_001134999) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kindlin 2
Synonyms:	KIND2; mig-2; MIG2; PLEKHC1; UNC112; UNC112B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG226092 representing NM_001134999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCTCTGGACGGGATAAGGATGCCAGATGGCTGCTACGCGGACGGGACGTGGGAACTGAGTGTCCATG
 TGACGGACCTGAACCGCATGTCAACCTGAGAGTGACCGGCGAGGTGCACATTGGAGGCGTGATGCTTAA
 GCTGGTGGAGAACTCGATGTAAAAAAGATTGGTCTGACCATGCTCTCTGGTGGGAAAAGAAGAGAACT
 TGGCTTCTGAAGACACATTGGACCTTAGATAAGTATGGTATTCAGGCAGATGCTAAGCTTCAGTTCACCC
 CTCAGCACAACTGCTCCGCTGCAGCTTCCCAACATGAAGTATGTGAAGGTGAAAGTGAATTTCTCTGA
 TAGAGTCTTCAAAGCTGTTTCTGACATCTGTAAGACTTTTAATATCAGACACCCCGAAGAAGTCTCTC
 TTAAGAAACCCAGAGATCCAACAAAGAAAAAAGAAGAAGCTAGATGACCACTCTGAAGATGAGGCAC
 TTGAATTAGAGGGGCTCTTATCACTCCTGGATCAGGAAGTATATATTCAAGCCAGGACTGTATAGTAA
 AACAAATGACCCCACTTATGATGCTCATGATGGAAGCCCTTGTCAACCACTTCTGCTTGGTTTGGTGAC
 AGTGCTTTGTGAGAAGGCAATCCTGGTATACTTGTCTGTCAGTCAACCAATCACGTACCAGAAATCTTGG
 CAAAAATGTTCAAGCCTCAAGCTCTTCTTGATAAAGCAAAAAATCAACCAAGGATGGCTTGATTCTCTCAAG
 ATCTCTCATGGAACAAGATGTGAAGGAAAATGAGGCCTTGTCTCGATTCAAGTATTACAGCTTTTTT
 GATTTGAATCCAAAGTATGATGCAATCAGAATCAATCAGCTTTACGAGCAGGCCAAATGGGCCATTCTCC
 TGGAAGAGATTGAATGCACAGAAGAAGAAATGATGATGTTTGCAGCCCTGCAGTATCATATCAATAAGCT
 GTCAATCATGACATCAGAGAATCATTGAACAACAGTGACAAAGAAGTTGATGAAGTTGATGCTGCCCTT
 TCAGACCTGGAGATTACTCTGGAAGGGGGTAAACGTCAACAATTTGGGTGACATTACTTCCATTCCTG
 AACTTGCTGACTACATTAAGTTTTCAAGCCAAAAAGCTGACTCTGAAAGGTTACAAACAATATTGGTG
 CACCTTCAAAGACACATCCATTTCTTGTTATAAGAGCAAAGAAGAAATCCAGTGGCACACCAGCTCATCAG
 ATGAACCTCAGGGGATGTGAAGTTACCCAGATGTAAACATTTAGGCCAAAAATTTAACATTAACTCC
 TGATTCCAGTTGCAGAAGGCATGAATGAAATCTGGCTTCGTTGTGACAATGAAAAACAGTATGCACACTG
 GATGGCAGCCTGCAGATTAGCTCCAAAGGCAAGACCATGGCGGACAGTTCTTACAACCTAGAAGTTCAG
 AATATTCTTCTCTTCTGAAGATGCAGCATTTAAACCCAGATCCTCAGTTAATACCAGAGCAGATCACGA
 CTGATATAACTCCTGAATGTTTGGTGTCTCCCGCTATCTAAAAAAGTATAAGAACAAGCAGCCAGGCTA
 TATAAGAGATTTGATAACAGCGAGAATCTTGGAGGCCCATCAGAATGTAGCTCAGATGAGTCTAATTGAA
 GCCAAGATGAGATTTATTCAAGCTTGGCAGTCACTACCTGAATTTGGCATCACTCACTTCATTGCAAGGT
 TCCAAGGGGGCAAAAAAGAAGAACTTATTGGAATTGCATACAACAGACTGATTCCGATGGATGCCAGCAC
 TGGAGATGCAATTAACATGGCGTTTCAGCAACATGAAACAGTGAATGTCAACTGGGAAATCAAAATG
 GTCACCGTAGAGTTTGCAGATGAAGTACGATTGTCCTTCATTTGTACTGAAGTAGATTGCAAAGTGGTTC
 ATGAATTCATTGGTGGCTACATATTTCTCTCAACACGTGCAAAAGACCAAAACGAGAGTTTATAGTGAAGA
 GATGTTCTACAACTTACCAGTGGTTGGGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226092 representing NM_001134999
 Red=Cloning site Green=Tags(s)

MALDGIRMPDGCYADGTWELSVHVTDLNRDVTLRVTGEVHIGGVMLKLVEKLDVKKDWSHDALWWEKKRT
 WLLKTHWTLDKYGIQADAKLQFTPHKLLRLQLPNMKYVKVKNFSDRVFAVSDICKTFNIRHPEELSL
 LKKPRDPTKKKKKKLDDQSEDEALEGLITPGSGSIYSSPGLYSKTMPTPTDAHDGSPLSPTSASFWD
 SALSEGNGILAVSQPITSPEILAKMFKPQALLDKAKINQGWLDSSRSLMEQDVKENEALLRKFYYSFF
 DLNPKYDAIRINQLYEQAKWAILLEEIECTEEEMMFALQYHINKLSIMTSENHLNNSDKEVDEVDAAL
 SDLEITLEGGKTSTILGDITSPELADYIKVFKPKKLTGKYKQYWCTFKDTSISCYKSKEESSGTPAHQ
 MNLRGCEVTPDVNISGQKFNIKLLIPVAEGMNEIWLRCNEKQYAHMAACRLASKGKTMADSSYNLEVQ
 NILSFLKMQLNPDPQLIPEQITTDITPECLVSPRYLKQYKQKPGYIRDLTARILEAHQNAQMSLIE
 AKMRFIQAWQSLPEFGITHFIARFQGGKKEELIGIAYNRLIRMDASTGDAIKTWRFSNMKQWNVNWEIKM
 VTVEFADEVRLSFICTEVDCKVVHEFIGGYIFLSTRAKDQNESLDEEMFYKLTSGWV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001134999

ORF Size: 2061 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001134999.1](#), [NP_001128471.1](#)

RefSeq Size: 3372 bp

RefSeq ORF: 2064 bp

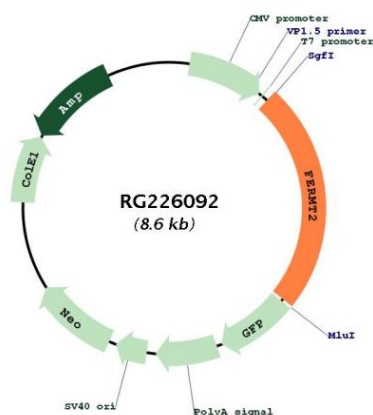
Locus ID: 10979

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 TGF β 1 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]

Product images:



Circular map for RG226092