

Product datasheet for **RG205727**

Kindlin 2 (FERMT2) (NM_006832) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kindlin 2 (FERMT2) (NM_006832) 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)



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ORF Nucleotide
Sequence:

>RG205727 representing NM_006832
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCTGGACGGGATAAGGATGCCAGATGGCTGCTACGCGGACGGGACGTGGAACTGAGTGTCCATG
TGACGGACCTGAACCGCATGTCAACCTGAGAGTGACCGCGAGGTGCACATTGGAGGCGTGATGCTTAA
GCTGGTGGAGAACTCGATGTAAAAAAGATTGGTCTGACCATGCTCTCTGGTGGAAAAGAAGAGAACT
TGGCTTCTGAAGACACATTGGACCTTAGATAAGTATGGTATTCAGGCAGATGCTAAGCTTCAGTTACCC
CTCAGCACAACTGCTCCGCTGCAGCTTCCCAACATGAAGTATGTGAAGGTGAAAGTGAATTTCTCTGA
TAGAGTCTTCAAAGCTGTTTCTGACATCTGTAAGACTTTAATATCAGACACCCCGAAGAAGTCTCTC
TTAAAGAAACCCAGAGATCCAACAAGAAAAAAGAAGAAGCTAGATGACCAGTCTGAAGATGAGGCAC
TTGAATTAGAGGGCCTTATCACTCCTGGATCAGGAAGTATATATTCAAGCCAGGACTGTATAGTAA
AACAAATGACCCCACTTATGATGCTCATGATGGAAGCCCTTGTCAACCACTTCTGCTTGGTTTGGTGAC
AGTGCTTTGTGAGAAGGCAATCCTGGTATACTTGTCTGTCAGTCAACCAATCACGTACCAGAAATCTTGG
CAAAAAATGTTCAAGCCTCAAGCTCTTCTTGATAAAGCAAAAAATCAACCAAGGATGGCTTGATTCCTCAAG
ATCTCTCATGGAACAAGATGTGAAGGAAAATGAGGCCTTGTCTGCTCCGATTCAAGTATTACAGCTTTTT
GATTTGAATCCAAAGTATGATGCAATCAGAATCAATCAGCTTTATGAGCAGGCCAAATGGGCCATTTCTCC
TGGAAGAGATTGAATGCACAGAAGAAGAAATGATGATGTTTGCAGCCCTGCAGTATCATATCAATAAGCT
GTCAATCATGACATCAGAGAATCATTGAAACAACAGTGACAAAGAAGTTGATGAAGTTGATGCTGCCCTT
TCAGACCTGGAGATTACTCTGGAAGGGGTAAAACGTCAACAATTTTGGGTGACATTACTCCATTCTCTG
AACTTGTGACTACATTAAGTTTTCAAGCCAAAAAGCTGACTCTGAAAGGTTACAACAATATTGGTG
CACCTTCAAAGACACATCCATTTCTTGTATAAGAGCAAAGAAGAAATCCAGTGGCACACCAGCTCATCAG
ATGAACCTCAGGGGATGTGAAGTTACCCAGATGTAAACATTTACAGGCCAAAAATTTAACATTAACCTCC
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GATGGCAGCTGCAGATTAGCCTCAAAGGCAAGACCATGGCGGACAGTTCTTACAACCTAGAAGTTCAG
AATATTCTTTCTTTCTGAAGATGCAGCATTAAACCCAGATCCTCAGTTAATACCAGAGCAGATCACGA
CTGATAAATCCTGAATGTTTGGTGTCTCCCCGCTATCTAAAAAAGTATAAGAACAAGCAGATAACAGC
GAGAATCTTGAGGCCCATCAGAATGTAGCTCAGATGAGTCTAATTGAAGCCAAGATGAGATTTATTCAA
GCTTGGCAGTCACTACCTGAATTTGGCCTCACTCACTTCAATTGCAAGGTTCCAAGGGGGAAAAAAGAAG
AACTTATTGGAATTGCATACAACAGACTGATTCGGATGGATGCCAGCACTGGAGATGCAATTAACACATG
GCGTTTCAGCAACATGAAACAGTGAATGTCAACTGGGAAATCAAAATGGTCACCGTAGAGTTTGCAGAT
GAAGTACGATTGTCTTCAATTTGTACTGAAGTAGATTGCAAAGTGGTTTCAATGAATTCATTGGTGGCTACA
TATTTCTCTCAACACGTGCAAAAGACAAAACGAGAGTTTAGATGAAGAGATGTTCTACAAACTTACCAG
TGGTTGGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205727 representing NM_006832
 Red=Cloning site Green=Tags(s)

MALDGIRMPDGCYADGTWELSVHVTDLNRDVTLRVTGEVHIGGVMLKLVEKLDVKKDWSHDHALWWEKKRT
 WLLKTHWTLDKYGIQADAKLQFQPHKLLRLQLPNMKYVKVKNVNSDRVFAVSDICKTFNIRHPEELSL
 LKKPRDPTKTKKKKLLDDQSEDEALELEGLITPGSGSIYSSPLYSKTMPTPTDAHDGSPLSPTSAAWFGD
 SALSEGNGILAVSQPITSPEILAKMFKPQALLDKAKINQGWLDSSRSLMEQDVKENEALLLRFKYYSFF
 DLNPKYDAIRINQLYEQAQWAILLEEIECTEEEMMMFAALQYHINKLSIMTSENHLNNSDKEVDEVDAAL
 SDLEITLEGGKTSITLGDITSIPELADYIKVFKPKKLTLYGKQYWCFTKDTISICYKSKEESSGTPAHQ
 MNLRGCEVTPDVNISGQKFNIKLLIPVAEGMNEIWLRCNEKQYAHWMAACRLASKGKTMADSSYNLEVQ
 NILSFLKMQHLNPDQLIPEQITTDITPECLVSPRYLKKYKNKQITARILEAHQNVQMSLIEAKMRFIQ
 AWQSLPEFGITHFIARFQGGKKEELIGIAYNRLIRMDASTGDAIKTWRFSNMKQWNVNWEIKMVTVEFAD
 EVRLSFICTEVDCKVVHEFIGGYIFLSTRAKDQNESLDEEMFYKLTSGWV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006832

ORF Size: 2040 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_006832.1](#), [NP_006823.1](#)

RefSeq Size: 3226 bp

RefSeq ORF: 2043 bp

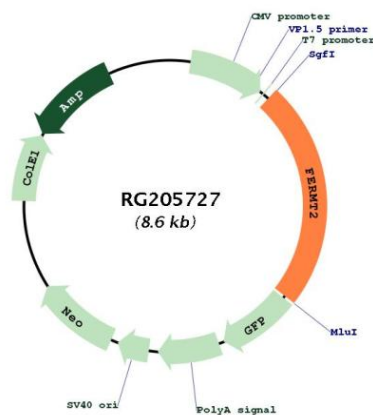
Locus ID: 10979

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 RG205727