

Product datasheet for **SC110995**

Radixin (RDX) (NM_002906) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Radixin (RDX) (NM_002906) Human Untagged Clone
Tag:	Tag Free
Symbol:	Radixin
Synonyms:	DFNB24
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110995 sequence for NM_002906 edited (data generated by NextGen Sequencing)

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ATGCCGAAACCAATCAACGTAAGAGTAAC TACAATGGATGCTGAGCTGGAATTTGCCATT
CAGCCCAATACTGGCAAACAACCTTTTTGACCAGGTGGTGA AACACAGTTGGTTTTCGT
GAGGTCTGGTTTTTTGGGCTGCAGTATGTAGACAGCAAAGTTATTCTACATGGCTTAAA
CTAAATAAAAAGGTAACACAGCAGGATGTTAAAAAAGAGAATCCTTTACAGTTCAAGTTT
AGAGCTAAATTTCTTCCGAAGATGTTTTCTGAGGAATTAATTC AAGAAATAACCCAGAGA
CTCTTCTTCTGCAAGTTAAAGAAGCCATCTTAAATGATGAGATATATTGCCCGCCAGAA
ACTGCAGTTCTTTTGGCTTCTATGCTGTCCAAGCCAAGTATGGAGATTACAATAAAGAG
ATTCATAAGCCAGGCTACCTGGCTAATGATAGACTCCTACCC CAGCGTGTATTGGAACAA
CACAACTAACAAAAGAACAGTGGGAAGAAAGAAATACAGAACTGGCATGAAGAACATAGA
GGAATGTTAAGGGAGGATTCTATGATGGAATACCTGAAGATTGCACAAGATCTAGAAATG
TATGGAGTCAACTATTTTGAATAAAAAATAAAAAAGGAAGTGAATTGTGGCTAGGTGTT
GATGCTTTGGGTCTGAATATTTATGAGCATGACGACAAGTTAACACCTAAAATTGGTTTT
CCCTGGAGTGAAATCAGAAATATTTTCAATTAATGACAAAAAATTTGTTATAAAGCCAATC
GACAAAAAGGCACCTGATTTTGTGTTTTATGCACCTCGTCTGAGAATCAATAAGCGGATT
TTGGCCTTATGTATGGGAAACCATGAACTATACATGCGAAGAAGGAAGCCTGATACTATT
GAAGTACAACAGATGAAGGCTCAGGCTAGGGAGGAGAAACATCAGAAGCAGTTGGAAAGG
GCACAATTAGAGAATGAAAAGAAGAAAAGAGAAATAGCAGAAAAGGAAAAGGAAAGAAATA
GAACGTGAAAAGGAGAGCTAATGGAACGTCTAAAACAATTTGAAGAGCAGACAATTTAA
GCTCAGAAAAGAACTAGAAGAACAGACTCGAAAAGCTCTAGAACTGGATCAAGAACGAAAA
CGAGCAAAGAAGAAAGCAGAACGACTTGAAAAGGAGCGTCGAGCTGCTGAAGAGGCAAAG
TCTGCCATAGCAAAAACAAGCTGCCGACCAGATGAAGAATCAGGAGCAGCTAGCAGCAGAA
CTTGCTGAATTCCTGCAAGATTGCACTTCTAGAGGAAGCCAAGAAAGAAAAGGAAAGAG
GAAGCTACTGAGTGGCAACACAAAGCTTTTGCAGCCAGGAAGACTTGGAAAAGACCAAAA
GAAGAGTTAAAAACTGTGATGTCTGCCCCCTCCACCTCCACCACCACAGTCATTCTCT
CCAACAGAAAACGAACATGATGAACACGATGAGAATAATGCTGAAGCTAGTGCTGAATTA
TCAATGAAGGGTAAATGAACCATAGAAGCGAGGAAGAACGTGTAAACGAAACACAGAAA
AATGAGCGTGTTAAGAAGCAACTCAGGCATTAAGTTCAGAAATAGCCCAAGCCAGAGAT
GAAACCAAGAAAACACAAAATGATGTTCTTCATGCTGAGAATGTTAAAGCAGGCCGTGAT
AAGTACAAGACTCTGCGACAGATTGACAAGGCAATACAAGCAGCGTATCGATGAGTTT
GAAGCAATGTGA
    
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Clone variation with respect to NM_002906.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002906 unedited
TGTCAAAATTTGTATACGACTACTATAGCGGCCGCGAATTCGCACGAGCGGAGGCCGCC
GAGCGGCCATATTGCGGAGCTGTCTGCGGTGGCGGCGGCCCTCTCGTCTCCCGCGGCC
AGCGCTCGCACCACCGCTTCTCCCTCCCTGTGCGAGCCGCGCGCGCAGCGCCCCAG
CCACACGCGCGGGGCGAGAAGCCCGCTCTCCGAAAGTGATAACAGAATTCATTGAA
GTGGAGAATTTTTAAAGAAGGTAACAAAAGAGAAAGAAAATGCCGAAACCAATCAACGT
AAGAGTAACTACAATGGATGCTGAGCTGGAATTTGCCATTAGCCCAATACAACCTGGCAA
ACAACCTTTTGGCAGGTGGTGA AACAGTTGGTTTTCGTGAGGTCTGGTTTTTTGGGCT
GCAGTATGTAGACAGCAAAGTTATTCTACATGGCTTAACTAAATAAAAAGGTAACACA
GCAGGATGTTAAAAAAGAGAATCCTTTACAGTTCAAGTTTAGAGCTAAATCTTTCTGTA
AGATGTTTCTGAGGAATTAATTC AAGAAATAACCCAGAGACTCTTCTTCTGCAAGTTAA
AGAAGCCATCTTAAATGATGAGATATATTGCCCGCCAGAAACTGCAGTTCTTTTGGCTTC
CTATGCTGTCCAAGCCAAGTATGGAGATTACCATAAAGAGATTATAAGCCAGGCTACCT
GGCTAATGATAGACTCCTACCC CAGCGTGTATTGGAACACACAACTAACANAAGACAGT
GGGAAGAAGATACAGACTGGCATGAAGACATAGAGGATGTTANGGGGAGATCATGATGGN
ATACCTGAGATGCCAGATCTAAAAGTATGGAGCAACTATTTGGAATAAAAAATAAAGGA
ACTGATGTGCTAGTNGTGAGCTTGGGTCTGATATTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002906 unedited TGTACGCGCCGCATCTATAGTCGGTTTTTTTTTTTTTTTTTTTTTGCATGAGCTTTTGTC ACTTTATTGTTAACCAATGAATATTATCCAAAATTAGAGATGTAATTGTAACCTAATTGT ACAACACAAAATTATGCTAATGGTAAAAGCCTACTGGGATTTACCAAATACTCATTAGTG TATTTTACATTGACTATATGAACATGTGCTCGCGACTGCTAATAAGTTATAATTGGTTT AATCTCTAAAAAATCCATATTGCAAATGGTTCTTGTAAAAAATTCACACAGCCTTAA AAATGGATTAAATCCATTTTAATCCTAATCTACAATAGATCATAAACAGCAAAATATAA CTGATAATTTTTCAATACTGTATCAAAGTATGATGTAGCTATGGTAGTGCACATAATTCAAA ATGAGGAAAATTAACAAAATCCAAATGAAAGTTCAGGTTTTTATCTATTATGCAATTGCT TTAAAGTGAACATTTATGTCTCAAAACATGAATAGTACGGTCCACCATCCATTCTTTGGA TGTACTGCAAGCAGGAATATTCTCTTCATTGGATTCTGAATCTTGTGTACAACCCGCGCA CATCATTACTTCAAGGGTATCTCCTTGTTTTTGCTCCTCCAGCTCCCTGTTTTCTTTTT TTGTTTTTGTTTTTTTTTCGTGTGGTTCTGTGTTTTTTTTTTTTTTTTCTTTTTT TTTTGGTGTGGTTCTTATTTTTTTTTGCTTTTTTGTAGTGTGTGTGAGGGTA TNTTTCGTGTTTTGTTCTGGGCTCCATTTTCGGCGTGGTCTTGCTCAGGTTGNTCTGCT GTTACCCCGTGGTGCATGTGTGTGTTTTCCCATGTGATCTTACGCCAATGGGCTGTA TGCCCGTCTGGTTATTGCTAACACTTGTGCAAGCTTATTCTTACCATATTACTCTCCT CTTATTTTTCTATATCCTCCTCCTA
Restriction Sites:	NotI-NotI
ACCN:	NM_002906
Insert Size:	4730 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).
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_002906.3</u> , <u>NP_002897.1</u>
RefSeq Size:	4498 bp
RefSeq ORF:	1752 bp
Locus ID:	5962
UniProt ID:	<u>P35241</u>
Cytogenetics:	11q22.3
Domains:	B41, ERM

Protein Families: Druggable Genome

Protein Pathways: Regulation of actin cytoskeleton

Gene Summary: Radixin is a cytoskeletal protein that may be important in linking actin to the plasma membrane. It is highly similar in sequence to both ezrin and moesin. The radixin gene has been localized by fluorescence in situ hybridization to 11q23. A truncated version representing a pseudogene (RDXP2) was assigned to Xp21.3. Another pseudogene that seemed to lack introns (RDXP1) was mapped to 11p by Southern and PCR analyses. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]
Transcript Variant: This variant (3) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (2) has a shorter C-terminus, compared to isoform 1.