

## Product datasheet for **RC234545**

### Radixin (RDX) (NM\_001260492) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Radixin (RDX) (NM_001260492) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Radixin
Synonyms:	DFNB24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234545 representing NM\_001260492  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGAAACCAATCAACGTAAGAGTAACATAATGGATGCTGAGCTGGAATTTGCCATTACGCCAATA  
 CAACTGGCAAACAACTTTTTGACCAGGTGGTGAACAGTTGGTTTTCGCTGAGGTCTGGTTTTTGGGCT  
 GCAGTATGTAGACAGCAAAGTTATTCTACATGGCTTAACTAAATAAAAAGGTAAACACAGCAGGATGTT  
 AAAAAAGAGAATCCTTTACAGTTCAAGTTAGAGCTAAATTTCTTCTGAAGATGTTTCTGAGGAATTAA  
 TTCAAGAAATAACCCAGAGACTCTTCTTCTGCAAGTTAAAGAAGCCATCTTAAATGATGAGATATTTG  
 CCCGCCAGAACTGCAGTTCTTTGGCTTCTATGCTGTCCAAGCAAGTATGGAGATTACAATAAAGAG  
 ATTCATAAGCCAGGCTACCTGGTAATGATAGACTCTACCCAGCGTGTATTGGAACAACAACTAA  
 CAAAAGAACAGTGGGAAGAAAGAATACAGAAGTGGCATGAAGAACATAGAGGAATGTTAAGGGAGGATTC  
 TATGATGGAATACCTGAAGATTGCACAAGATCTAGAAATGTATGGAGTCAACTATTTTGAATAAAAAAT  
 AAAAAAGGAACTGAATTTGGCTAGGTGTTGATGCTTTGGGTCTGAATATTTATGAGCATGACGACAAGT  
 TAACACCTAAAAATGGTTTTCCCTGGAGTGAAATCAGAAATATTTCAATTAATGACAAAAAATTTGTTAT  
 AAAGCCAATCGACAAAAAGGCACCTGATTTTGTGTTTTATGCACCTCGTCTGAGAATCAATAAGCGGATT  
 TTGGCCTTATGTATGGGAAACCTGAACATACATGCGAAGAAGGAAGCCTGATACTATTGAAGTACAAC  
 AGATGAAGGCTCAGGCTAGGGAGGAGAAACATCAGAAGCAGTTGGAAAGGGCACAATTAGAGAATGAAAA  
 GAAGAAAAGAGAAATAGCAGAAAAGGAAAAGGAAAAGAAATAGAACGTGAAAAGGAAGAGCTAATGGAACGT  
 CTAACAACTGAAGAGCAGACAATTAAGCTCAGAAAGAACTAGAAGAACAGACTCGAAAAGCTCTAG  
 AACTGGATCAAGAACGAAAACGAGCAAAAAGAAGAAGCAGAACGACTTGAAAAGGAGCGTCTGAGCTGCTGA  
 AGAGGCAAGTCTGCCATAGCAAAAACAAGCTGCCGACCAGATGAAGAATCAGGAGCAGCTAGCAGCAGAA  
 CTTGCTGAATTCAGTCCAAAGATTGCACTTCTAGAGGAAGCCAAGAAGAAAAGGAAGGAAAGCTACTG  
 AGTGGCAACACAAAGCTTTTGCAGCCCAGGAAGACTTGAAAAAGACCAAGAAGAGTTAAAAACTGTGAT  
 GTCTGCCCCCCCTCCACCTCCACCACCAGTCATTCTCCAACAGAAAACGAACATGATGAACACGAT  
 GAGAATAATGCTGAAGCTAGTGTGAATTATCAATGAAGGGTAAATGAACCATAGAAGCGGGAAGAAC  
 GTGTAACCGAAACACAGAAAAATGAGCGTGTAAAGAAGCAACTTCAGGCATTAAGTTCAGAATTAGCCCA  
 AGCCAGAGATGAAACCAAGAAAACACAAAATGATGTTCTCATGCTGAGAATGTTAAAGCAGGCCGTGAT  
 AAGTACAAGACTCTGCGACAGATTCGACAAGGCAATACAAGCAGCGTATCGATGAGTTGAAGCAATGT  
 GGGGACCCAACTGTATGCATTGTTCCAGATGCGCTCTTGCCAAAGCAGCATAAAGCAAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234545 representing NM\_001260492  
 Red=Cloning site Green=Tags(s)

MPKPINVRVTMDAELEFAIQPNTTGKQLFDQVVKTVGLREVWFFGLQYVDSKGYSTWLKLNKKVTTQDDV  
 KKENPLQFKFRAKFFPEDVSEELIQEITQRLFFLQVKEAILNDEIYCPPETAVLLASYAVQAKYGDYNKE  
 IHKPGYLANDRLLPQRVLEQHKLTKEQWEERIQNWHEEHRGMLREDSMMEYLKIAQDLEMYGVNYFEIKN  
 KKGTELWLGVDALGLNIYEHDDKLPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRI  
 LALCMGNHEL YMRRRKPDTEIEVQQMKAQAREEKHQKQLERAQLENEKKKREIAEKEKERIEREKEELMER  
 LKQIEEQTIKAQKEL EEQTRKALELDQERKRKRAEEAERLEKERRAAEEAKSAIAKQAADQMKNQEQLAAE  
 LAEFTAKIALLEEAKKKKEEATEWQHKAFAAQEDLEKTEELKTYMSAPPPPPPPVIPPPTENEHDEHD  
 ENNAEASAELENEGVNMHRSEEEERVTEQKNERVKKQLQALSSELAQARDETKKTQNDVLHAENVKAGRD  
 KYKTLRQIRQGNKQRIDEFAMWGPPLYALFQMRSCQSSIKQM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001260492

**ORF Size:** 1812 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\\_001260492.2](#)

**RefSeq Size:** 2761 bp

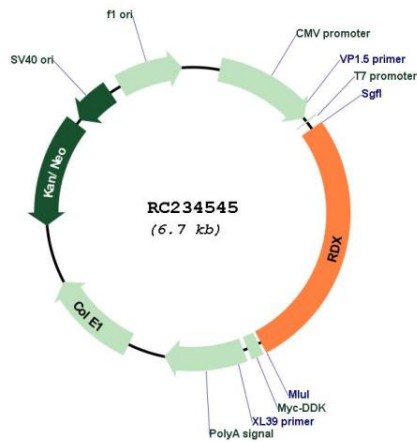
**RefSeq ORF:** 1815 bp

**Locus ID:** 5962

**UniProt ID:** [P35241](#)

<b>Cytogenetics:</b>	11q22.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Regulation of actin cytoskeleton
<b>MW:</b>	71.5 kDa
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for RC234545