

## Product datasheet for **RG234546**

### Radixin (RDX) (NM\_001260493) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Radixin (RDX) (NM_001260493) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Radixin
Synonyms:	DFNB24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234546 representing NM\_001260493  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGAAACCAATCAACGTAAGAGTAACATAATGGATGCTGAGCTGGAATTTGCCATTACGCCAATA  
 CAACTGGCAAACAACTTTTTGACCAGGTGGTGA AACAGTTGGTTTTCGCTGAGGTCTGGTTTTTTGGGCT  
 GCAGTATGTAGACAGCAAAGTTATTCTACATGGCTTAACTAAATAAAAAGGTAAACACAGCAGGATGTT  
 AAAAAAGAGAATCCTTTACAGTTCAAGTTTAGAGCTAAATTTCTTCTGAAGATGTTTCTGAGGAATTA  
 TTCAAGAAATAACCCAGAGACTCTTCTTCTGCAAGTTAAAGAAGCCATCTTAAATGATGAGATATTTG  
 CCCGCCAGAACTGCAGTTCTTTGGCTTCTATGCTGTCCAAGCCAAGTATGGAGATTACAATAAAGAG  
 ATTCATAAGCCAGGCTACCTGGTAATGATAGACTCTACCCAGCGTATTGGAACAACAACTAA  
 CAAAAGAACAGTGGGAAGAAAGAATACAGAAGTGGCATGAAGAACATAGAGGAATGTTAAGGGAGGATTC  
 TATGATGGAATACCTGAAGATTGCACAAGATCTAGAAATGTATGGAGTCAACTATTTTGAATAAAAAAT  
 AAAAAAGGAACTGAATTTGGCTAGGTGTTGATGCTTTGGGTCTGAATATTTATGAGCATGACGACAAGT  
 TAACACCTAAAAATGGTTTTCCCTGGAGTGAAATCAGAAATATTTCAATTAATGACAAAAAATTTGTTAT  
 AAAGCCAATCGACAAAAAGGCACCTGATTTTGTGTTTTATGCACCTCGTCTGAGAATCAATAAGCGGATT  
 TTGGCCTTATGTATGGGAAACCTGAACATACATGCGAAGAAGGAAGCCTGATACTATTGAAGTACAAC  
 AGATGAAGGCTCAGGCTAGGGAGGAGAAACATCAGAAGCAGTTGGAAAGGGCACAATTAGAGAATGAAAA  
 GAAGAAAAGAGAAATAGCAGAAAAGGAAAAGGAAAGAATAGAACGTGAAAAGGAAGAGCTAATGGAACGT  
 CTAACCAAAATGAAGAGCAGACAATTAAGCTCAGAAAGAACTAGAAGAACAGACTCGAAAAGCTCTAG  
 AACTGGATCAAGAACGAAAACGAGCAAAAAGAAGCAAGCAAGTGGAAAAGGAGGAGGCTGAGCTGCTGA  
 AGAGGCAAAGTCTGCCATAGCAAAAACAAGCTGCCGACCAGATGAAGAATCAGGAGCAGCTAGCAGCAGAA  
 CTTGCTGAATTCAGTCCAAAGATTGCACTTCTAGAGGAAGCCAAGAAGAAAAGGAAGGAAAGCTACTG  
 AGTGGCAACACAAAGCTTTTGCAGCCCAGGAAGACTTTGAAAAGACCAAAGAAGAGTTAAAAACTGTGAT  
 GTCTGCCCCCCCTCCACCTCCACCACCACAGTCACTTCTCCAACAGAAAACGAACATGATGAACACGAT  
 GAGAATAATGCTGAAGCTAGTGTGAATTATCAATGAAGGGGTAAATGAACCATAGAAGCGGGAAGAAC  
 GTGTAACCGAAACACAGAAAAATGAGCGTGTAAAGAAGCAACTTCAGGCATTAAGTTCAGAATTAGCCCA  
 AGCCAGAGATGAAACCAAGAAAACACAAAATGATGTTCTTCATGCTGAGAATGTTAAAGCAGGCCGTGAT  
 AAGTACAAGACTCTGCGACAGATTTCGACAAGGCAATACAAGCAGCGTATCGATGAGTTTGAAGCAATGT  
 GGGGACCCAAACTGTATGCATTGTTCCAGATGCGCTCTTGCCAAAGCAGCATAAAGCAAAATG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234546 representing NM\_001260493  
 Red=Cloning site Green=Tags(s)

MPKPINVRVTTMDAELEFAIQPNTTGKQLFDQVVKTVGLREVWFFGLQYVDSKGYSTWLKLNKKVTQQDV  
 KKENPLQFKFRAKFFPEDVSEELIQEITQRLFFLQVKEAILNDEIYCPPETAVLLASYAVQAKYGDYNKE  
 IHKPGYLANDRLLPQRVLEQHKLTKEQWEERIQNWHEEHRGMLREDSMMEYLKIAQDLEMYGVNYFEIKN  
 KKGTELWLGVDALGLNIYEHDDKLTPIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRI  
 LALCMGNHEL YMRRRKPDTIEVQMQKAQAREEKHQKQLERAQLENEKKKREIAEKEKERIEREKEELMER  
 LKQIEEQTIKAQKELEEQTRKALELDQERKRAKEEAERLEKERRAAEEAKSAIAKQAADQMKNQEQLAAE  
 LAEFTAKIALLEEAKKKKEEATEWQHKAFAAQEDLEKTEELKTVM SAPPPPPPPVIPPPTENEHDEHD  
 ENNAEASAE LSNEGVMNHRSEERVETETQKNERVKKQLQALSSELAQARDETKKTQNDVLHAENVKAGRD  
 KYKTLRQIRQGNTKQRIDEFAMWGPKLYALFQMRSCQSSIKQM

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001260493

**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\\_001260493.1](#), [NP\\_001247422.1](#)

**RefSeq Size:** 2511 bp

**RefSeq ORF:** 1815 bp

**Locus ID:** 5962

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

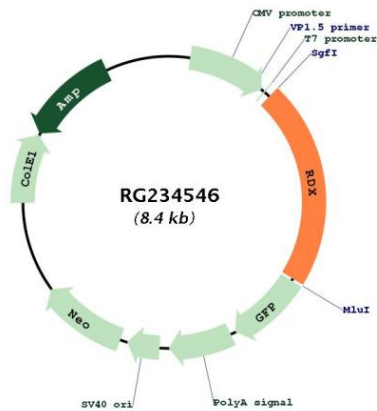
**Cytogenetics:** 11q22.3

**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]

**Product images:**



Circular map for RG234546