

Product datasheet for **RC239088**

RIPOR2 (NM_001286447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIPOR2 (NM_001286447) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RIPOR2
Synonyms:	C6orf32; DFNB104; DIFF40; DIFF48; FAM65B; MYONAP; PL48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC239088 representing NM_001286447
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGGTAGGATCCAGTCTTTTTCGCCTGGAGGGCCAATGGGATCATTAGAAGCCAGTCCTTTGCGG
 GTTTCAGCGGCCCTCCAGGAAAGGCGATCCAGGTGTAACCTCTTATTGAAAATTCCTCCGCTCTCAAGAA
 GCCTCAGGCCAAACTGAAGAAAATGCACAATTTAGGCCACAAAAACAACATCCCCCAAAGAGCCTCAG
 CCTAAAAGGGTGAAGAAGTCTACAGGGCCTTGAAAAATGGACTTGATGAATATCTGGAGGTTTACCAGA
 CGGAGCTGGACAAGTTGACAGCTCAGTTAAAAGATATGAAAAGAACTCTCGCCTGGGTGTACTGTATGA
 CCTAGACAAGCAAATTAACAATTGAAAGATACATGAGACGCCTGGAGTTTCATATAAGTAAGGTAGAT
 GAACTCTATGAAGCTTATTGTATCCAGCGACGCCTCCAGGATGGTGCCAGCAAAATGAAGCAAGCCTTCG
 CAACATCCCCTGCCAGCAAAGCTGCCCGGAGAGTCTGACAGAGATCAATCGGAGCTTCAAGGAGTACAC
 AGAGAATATGTGACCATTGAAGTGGAGCTAGAGAATCTGCTGGGAGAATTCTCCATCAAGATGAAAGGT
 CTGGCTGGCTTTGCACGCCTCTGTCCTGGAGATCAATATGAAATTTTCATGAAGTATGGCCGGCAGCGGT
 GGAAACTGAAAGGCAAAATAGAAGTAAATGGCAAGCAGAGCTGGGATGGAGAAGAAACAGTTTTTCTGCC
 CCTGATAGTTGGGTTCATCTCCATCAAGGTCACGGAGCTCAAAGGGCTAGCAACTCACATCCTGGTAGGT
 AGCGTGACCTGTGAGACCAAGAGCTGTTTGCAGCCCGACCTCAGGTAGTGGCTGTGCACATCAATGACC
 TTGGTACCATCAAACCTGAACCTGGAAATCACCTGGTATCCATTTGACGTGGAGGACATGACCGCATCCTC
 AGGCGCTGGGAACAAGGCAGCAGCCCTTCAGAGGAGAATGTCCATGTACAGCCAGGGTACCCCGAAACG
 CCCACCTTCAAAGACCACTCCTTCTTTCAAATCTACCTGATGACATCTTTGAAAATGAAAGGCAGCCG
 AGGAGAAAATGCCACTGTCGCTCAGCTTCAGTGACCTGCCAACGGGGACTGCGCCCTCACCTCCCACTC
 AACAGGCTCCCCTTCCAACCTCAACAAATCCAGAAATTACCATCACCCCTGCGGAGTTTAACTCAGCAGC
 TTGGCCTCCCAGAATGAGGGTATGGATGACACAGCTCAGCATCTTCCAGGAACTCCCTGGGAGAAGGCC
 AAGAGCCAAAGTCACACCTGAAGGAGGAAGACCCAGAGGAGCCAGAAAACCTGCCTCGGCCCATCTGA
 GGCTTGCCGCCGACAGTCTCAGGTGCTGGGGCTGAGCACCTGTTCTTGAGAATGATGTTGCAGAAGCA
 CTTCTGCAAGAGTCTGAGGAGGCTCTGAGCTCAAGCCTGTGGAAGTGGACACTTCGGAAGGAAACATCA
 CAAAGCAGCTGGTCAAGAGGCTCACATCTGCAGAGGTGCCAATGGCCACAGACAGGCTGCTCTGAGGG
 TTCTGTTGGTGGAGAATCTGAAGGCTGCAGATCCTTTCTAGATGGAAGCTTAGAGGATGCTTTTAATGGG
 CTTTACTTGCATTAGAACCACATAAAGAGCAGTATAAAGAGTTTCAGGATCTGAACCAAGAAGTCATGA
 ATTTGGATGATATTCTAAAAGATGCTAAACACCTTGACGATCAGAACTAAATGGTGCTGCCTCTTGGAC
 GGAGATCACTGAGGGTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239088 representing NM_001286447
 Red=Cloning site Green=Tags(s)

MLVGSQSFSPGGPNGIIRSQSFAGFSGLQERRSRCNSFIENSSALKKPQAKLKKMHNHGHKNNPPKEPQ
 PKRVEEVYRALKNGLDEYLEVHQTELDKLTAKLQKDMKRNRLGVLYDLKQIKTIERYMRRLEFHISKVD
 ELYEAYCIQRRQLQDGASKMKQAFATSPASKAARESLTEINRSFKEYTENMCTIEVELENLLGEFSIKMKG
 LAGFARLCPGDQYEIFMKYGRQRWKLKGKIEVNGKQSWDGEETVFLPLIVGFISIKVTELKGLATHILVG
 SVTCETKELFAARPQVAVDINDLGTIKLNLEITWYPFDVEDMTASSGAGNKAALQRRMSMYSQGTPEP
 PTFKDHFFSNLPDDIFENGKAAEEKMPLSLSFSDLPNGDCALTSHTGSPSNSTNPEITITPAEFNLSS
 LASQNEGMDDTSSASSRSLGEGQEPKSHLKEEDPEEPRKPASAPSEACRRQSSGAGAEHLFLENDVAEA
 LLQESEEASELKPVELDTSEGNITKQLVKRLTSAEVPMDRLLSEGSVGESEGCGRSFLDGSLEDAFNG
 LLLALEPHKEQYKEFQDLNQEVMNDDILKDAKHLDDQKLNGAASWTEITEGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286447

ORF Size: 1839 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

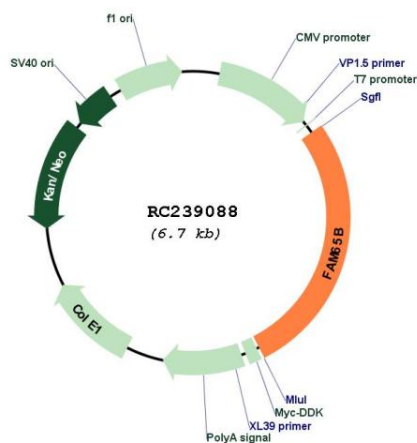
RefSeq: [NM_001286447.1](#), [NP_001273376.1](#)

RefSeq Size: 3638 bp

RefSeq ORF: 1842 bp

Locus ID:	9750
UniProt ID:	Q9Y4F9
Cytogenetics:	6p22.3
MW:	68.5 kDa
Gene Summary:	This gene encodes an atypical inhibitor of the small G protein RhoA. Inhibition of RhoA activity by the encoded protein mediates myoblast fusion and polarization of T cells and neutrophils. The encoded protein is a component of hair cell stereocilia that is essential for hearing. A splice site mutation in this gene results in hearing loss in human patients. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC239088