

Product datasheet for **RC200211**

RPIP8 (RUNDC3A) (NM_006695) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPIP8 (RUNDC3A) (NM_006695) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPIP8
Synonyms:	RAP2IP; RPIP-8; RPIP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200211 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGCGAGCTTTGTCCAGACCACCATGGCTCTGGGGCTGTCCTCCAAGAAAGCGTCCTCTCGCAACG
 TGGCTGTGGAGCGTAAGAACCTGATCACCGTGTGCAGGTTCTCTGTGAAAACGCTGCTGGAGAAGTACAC
 AGCGGAGCCCATCGATGACTCATCGGAGGAGTTTGTCAATTTGCAGCCATTTAGAGCAGATCCTCAGC
 CACCGCTTCAAAGCCTGTGCCCCAGCAGGTCCAGTGAGCTGGTTCAGCTCAGACGGGCAGCGGGCTTTT
 GGGACTATATCCGGCTGGCTGCAGCAAAGTGCCCAACAACCTGTGTGAGCAGCATCGAGAACATGGAGAA
 CATCAGCACAGCCCGGGCCAAGGGCCGGCATGGATCCGGGTGGCACTGATGGAGAAGCGCATGTCAGAA
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 GGGGAAGTCTGGACGGGAAGACCCCGTGGTTCATCGATTACACGCCCTACCTAAAGTTACGCAGAGC
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 AGCACCCGTACCTCCCGCTCGTCACCGACGAGGACAGCTGGTACAGCAAGTGGCACAAGATGGAGCAGAA
 GTTCCGCATCGTCTACGCGCAGAAGGGCTACCTGGAGGAGCTGGTGCCTCTGCGCGAGTCGCAGCTGAAG
 GACCTGGAGGCGGAGAACC GGCGCTTCAGCTGCAGCTGGAGGAGCGGGCGGCAGAACACGCGCGAGA
 AACGGGAGCTGGAAGGCGTGATCCTGGAGCTGCAGGAGCAGCTGACAGGTCTGATCCCCAGTGACCACGC
 CCTCTGGCCAGGGTTCCAAGGAGCTCACTACACCCCTGGTCAATCAATGGCCCTCACTGGGAACGCTT
 AATGGGGCCGAGGGCGCCAGCAACTCCAAGCTCTACCGGAGACACAGTTTCATGAGCACGGAGCCGCTGT
 CAGCTGAAGCCAGTCTGAGCTCGGACTCCAGCGCCTGGGAGAGGGCACGCGGGACGAGGAGCCCTGGGG
 TCCCATCGGAAGCTCAGAGCCAAAT

A**CGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC200211 protein sequence
 Red=Cloning site Green=Tags(s)

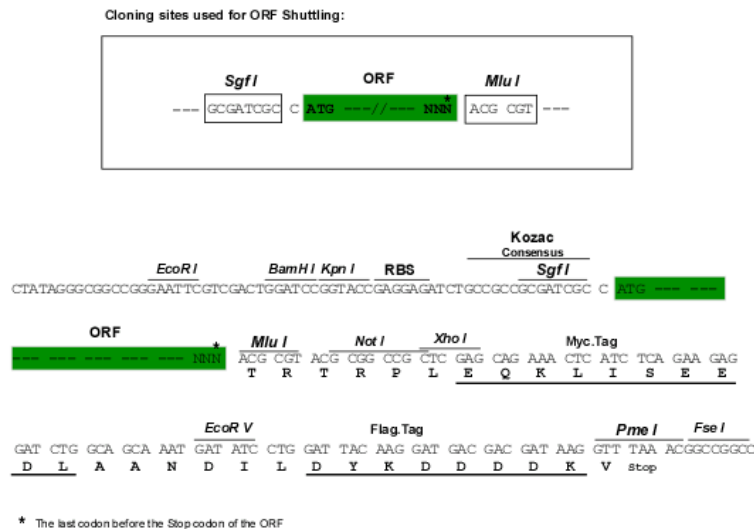
MEASFVQTTMALGLSSKASSRNVAVERNLITVCRFSVKTLLEKYTAEPIDDSSEEFVNFAAILEQILS
 HRFKACAPAGPVSWFSSDGQRFWDYIRLACSKVPNNVSSIENMENISTARAKGAWIRVALMEKRMSE
 YITTALRDTRTTRRFYDSGAIMLRDEATILTGLIGLSAIDFSFCLKGEVLDGKTPVVIDYTPYLKFTQS
 YDYL TDEEERHSAESSTSEDNSPEHPYLPVLTDEDSWYSKWHKMEQKFRIVYAQKGYLEELVRLRESQLK
 DLEAENRRRLQLQLEEAQAQNRKRELEGVILELQEQLTGLIPSDHAPLAQGSKELTTPLVNQWPSLGT
 L NGAEGASNSKLYRRHSFMSTEPLSAEASLSSDSQRLGEGTRDEEPWGPISSEPN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6151_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006695

ORF Size: 1215 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_006695.3, NP_006686.1

RefSeq Size: 1879 bp

RefSeq ORF: 1218 bp

Locus ID: 10900

UniProt ID: Q59EK9

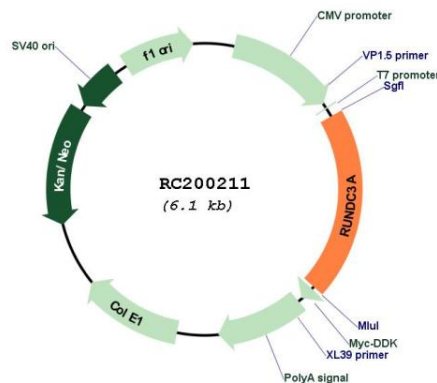
Cytogenetics: 17q21.31

Domains: RUN

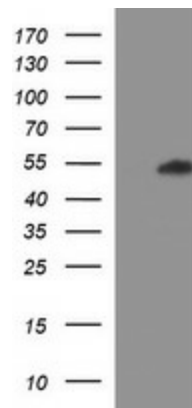
MW: 45.7 kDa

Gene Summary: May act as an effector of RAP2A in neuronal cells.[UniProtKB/Swiss-Prot Function]

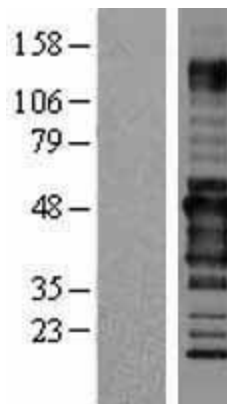
Product images:



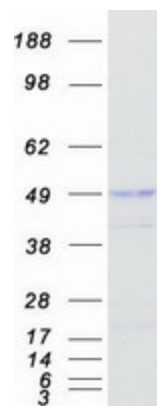
Circular map for RC200211



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RUNDC3A (Cat# RC200211, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RUNDC3A (Cat# [TA506769]). Positive lysates [LY402004] (100ug) and [LC402004] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402004]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200211 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RUNDC3A protein (Cat# [TP300211]). The protein was produced from HEK293T cells transfected with RUNDC3A cDNA clone (Cat# RC200211) using MegaTran 2.0 (Cat# [TT210002]).