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Product datasheet for RC208649

RSPH3 (NM_031924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSPH3 (NM_031924) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RSPH3
Synonyms:	CILD32; dJ111C20.1; RSHL2; RSP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC208649 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGGTCAAGCCAGCCAAGGCCGCCTCCCTAGCCAGGAACCTCGCAAAGCGCAGGCGCACCTACCTGG
GTGGCGCGGCTGGGCGGAGTCAAGAGCCGGAAGTCCCTTGTGCCGCAGTCCTTCCCGGGAAACCTGGGGA
CCGGAACTGCCCGGAGTTCCCGCCCCCAGACAGAACCCTGGGTTGCTGGGCAACCGATGCGGCCCCCGCA
GCTGGTCTCTGTGGTGCTGGGAGCGAGCCCAGTATAGCTCCCACCTCCTGCGCTGGTAACCTCCCGTCCC
GCCCGCCTCCCTTGTTGTCGCCTCTCCTCGCGTCGCGGAATCCTTGCCCTTGGCACTACTTACATCTCTC
CGGGTCCCACAACACCTTAGCGCCCACCTGCTTCAAAGCCAAGCTCCACCGAAAGCGAGGCAGTCAGCCC
CCGGACATGGCCTCAGCGCTGACTGATCGCACCTCTCGGGCCCCGAGCACCTACACCTACACCAGCCGGC
CCCGAGCACTGCCCTGCCAGCGCAGCCGTTACCGGGACAGCCTGACGCAGCCAGATGAAGAACCTATGCA
TTATGGAAACATAATGTATGACAGAAGGGTAATTCGAGGTAACACTTATGCACTCCAGACAGGGCCACTG
CTCGGACGGCCTGATTCTCTAGAGCTCCAGAGACAACGGGAGGCTAGGAAGAGGGCTCTTGCCAGAAAAC
AAGCCCAAGAGCAGCTCAGACCACAAACACCTGAACCTGTGGAAGGCAGAAAGCATGTCGATGTGCAAAC
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GAACTACGGAATAGTGAACGTGCTGAAGTTCAACGACTTGAAGAGCAAGAGAGGCGACACCGAGAAGAAA
AAGAACGGCGTAAGAAACAGCAGTGGGAAATAATGCACAAGCACAACGAGACATCACAAAAAATCGCCGC
CCGAGCATTTGCACAGCGTTACCTGGCTGACCTTCTCCCGTCTGTTTTTGGCAGCCTCAGGGATAGTGGC
TACTTTTATGATCCCATTGAAAGAGATATTGAGATAGGATTTCTTCCATGGCTAATGAATGAAGTTGAAA
AAACCATGGAATATAGCATGGTGGGAAGAACAGTGCTTGACATGTTGATCCGTGAGGTGGTTGAAAAGAG
GCTGTGTATGTATGAGCATGGGGAAGACACACATCAGTCTCCAGAACCCGAGGATGAGCCTGGTGGTCCT
GGAGCAATGACAGAGTCACTGGAGGCCTCTGAATTCCTGGAGCAGAGCATGTCACAGACACGGGAGCTGC
TTTTAGATGGAGGCTACCTACAAAGAACAACATATGACAGAAGGTCATCCCAGGAAAGGAAGTTTATGGA
AGAGAGAGAACTCTTAGGGCAAGATGAAGAAACAGCAATGAGGAAGTCCTTAGGGGAGGAAGAATTGTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208649 protein sequence
Red=Cloning site Green=Tags(s)

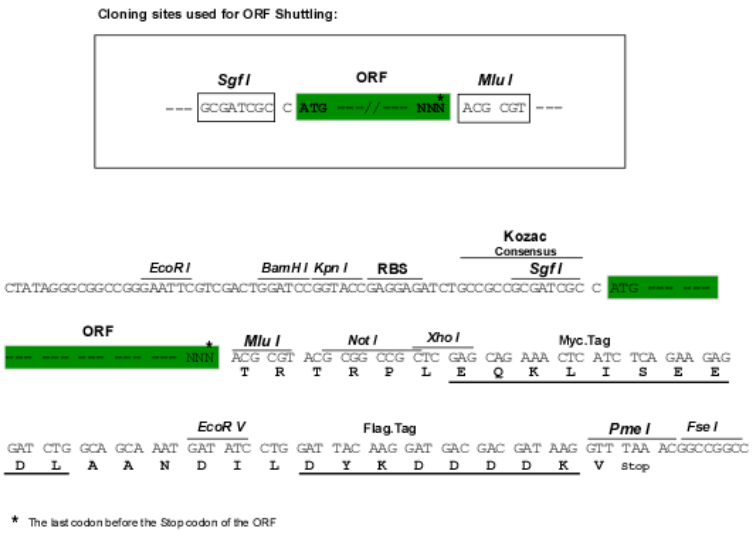
MTVKPAKAASLARNLAKRRRTYLGGAAGRSQEPEVPCAAVLPGKPGDRNCPEFPPPDRTLGCWATDAAPA
AGLCGAGSEPSIAPTSCAGNLPSRPPPLLSPLLASRNPCPWHYLHLSGSHNTLAPTCFKAKLHRKRGSQP
PDMASALTDRTSRAPSTYTYTSRPRALPCQRSRYRDSLTQPDEEPMHYGNIMYDRRVIRGNTYALQTGPL
LGRPDSLELQRQREARKRALARKQAQEQLRPQTPEPVEGRKHVDVQTELYLEEIADRIIEVDMECQTDAF
LDRPPTPLFIPAKTGKDVATQILEGELFDFDLEVKPVLEVLVGKTIEQSLLEVMEEEELANLRASQREYE
ELRNSERAEVQRLEEQERRHREEKERRKKQQWEIMHKHNETSQKIAARAFAQRYLADLLPSVFGSLRDSG
YFYDPIERDIEIGFLPWLMNEVEKTMEYSMVGRTVLDMLIREVVEKRLCMYEHGEDTHQSPEPEDEPGGP
GAMTESLEASEFLEQSMSQTRELLLDGGYLQRTTYDRRSSQERKFMEERELLGQDEETAMRKSLGEEELS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6362_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031924

ORF Size: 1680 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_031924.7

RefSeq Size: 2201 bp

RefSeq ORF: 1257 bp

Locus ID: 83861

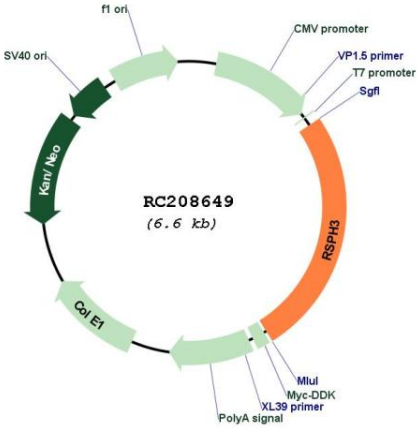
UniProt ID: Q86UC2

Cytogenetics: 6q25.3

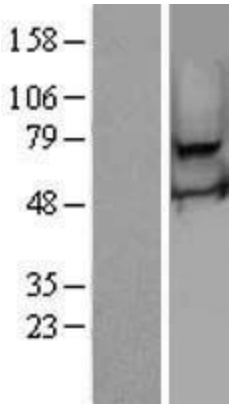
MW: 63.7 kDa

Gene Summary: The protein encoded by this gene acts as a protein kinase A anchoring protein. Mutations in this gene cause primary ciliary dyskinesia; a disorder characterized by defects of the axoneme in motile cilia and sperm flagella. The homolog of this gene was first identified in the blue-green algae Chlamydomonas as encoding a radial spoke protein that formed a structural component of motile cilia and flagella. Alternate splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RC208649



Western blot validation of overexpression lysate (Cat# [LY410438]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208649 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).