

Product datasheet for **RG208649**

RSPH3 (NM_031924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSPH3 (NM_031924) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RSPH3
Synonyms:	CILD32; dj111C20.1; RSHL2; RSP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208649 representing NM_031924
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGTCAAGCCAGCCAAGGCCCGCTCCCTAGCCAGGAACCTCGCAAAGCGCAGGCGCACCTACCTGG
 GTGGCGCGCTGGCGGAGTCAAGAGCCGGAAGTCCCTTGTGCCGAGTCCCTCCCGGAAACCTGGGGA
 CCGGAAC**TGCCCGGAGT**TCCCGCCCCAGACAGAACCTGGGTTGCTGGGCAACCGATGCGGCCCGCGCA
 GCTGGTCTCTGTGGTCTGGGAGCGAGCCAGTATAGCTCCACCTCCTGCGCTGGTAACCTCCCGTCCC
 GCCCGCTCCCTTGTGTCGCTCTCCTCGCGTCGCGGAATCCTTGCCCTGGCACTACTTACATCTCTC
 CGGGTCCACAACACCTTAGCGCCACCTGCTTCAAAGCCAAGCTCCACCGAAAGCGAGGCGAGTCCAGCC
 CCGGACATGGCCTCAGCGCTGACTGATCGCACCTCTCGGGCCCGAGCACCTACACCTACACCAGCCGGC
 CCCGAGCACTGCCCTGCCAGCGCAGCCGTTACCGGGACAGCTGACGCAGCCAGATGAAGAACCTATGCA
 TTATGGAACATAATGTATGACAGAAGGTAATTCGAGGTAACACTTATGCACTCCAGACAGGGCCACTG
 CTCGGACGGCCTGATTCTCTAGAGCTCCAGAGACAACGGGAGGCTAGGAAGAGGGCTCTTGCCAGAAAC
 AAGCCCAAGAGCAGCTCAGACCACAAACACCTGAACCTGTGGAAGGCAGAAGCATGTGCGATGTGCAAA
 AGAATTATACCTTGAAGAAATTGCTGATCGCATAATAGAAGTTGATATGGAATGCCAAACAGATGCATTT
 TTGGACAGACCACCAACACCACTCTTTATTCTGCCAAAACCTGGCAAAGATGTGGCCACCCAAATACTAG
 AAGGAGAGCTCTTTGACTTTGATCTTGAAGTTAAACAGTGTTAGAAGTTTTGGTGGGGAAGACAATTGA
 GCAGTCTCTTCTGGAAGTAAAGGAAAGAGCTGGCTAACCTGCGGGCCAGTCAAGGATGAGTATGAA
 GAACACGGAATAGTGAACGTGCTGAAGTTCAACGACTGAAGAGCAAGAGAGGCGACCCGAGAAGAAA
 AAGAACGGCGTAAGAAACAGCAGTGGAAATAATGCACAAGCACACAGACATCACAAAAATCGCCGC
 CCGAGCATTTGCACAGCGTTACCTGGCTGACCTTCTCCCGTCTGTTTTTGGCAGCCCTCAGGGATAGTGGC
 TACTTTTATGATCCCATTGAAAGAGATATTGAGATAGGATTTCTCCATGGCTAATGAATGAAGTTGAAA
 AAACCATGGAATATAGCATGGTGGGAAGAACAGTCTTGACATGTTGATCCGTGAGGTGGTTGAAAAGAG
 GCTGTGTATGATGAGCATGGGGAAGACACACATCAGTCTCCAGAACCCGAGGATGAGCCTGGTGGTCT
 GGAGCAATGACAGAGTCACTGGAGGCCTCTGAATCCTGGAGCAGAGCATGTCACAGACACGGGAGCTGC
 TTTTAGATGGAGGCTACCTACAAAGAACAACATATGACAGAAGGTCATCCAGGAAAGGAAGTTTATGGA
 AGAGAGAGAACTTAGGGCAAGATGAAGAAACAGCAATGAGGAAGTCTTAGGGGAGGAAGAATTGTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208649 representing NM_031924
 Red=Cloning site Green=Tags(s)

MTVKPAKAASLARNLAKRRRTYLGAAGRSQEPEVPCAAVLPKPGDRNCPFPDRTLGCVATDAAPA
 AGLCGAGSEPSIAPTSCAGNLPSPRPPLLSPLLASRNPSPWHYHLHLSGSHNTLAPTFCFKAHLHRKRSQP
 PDMASALTDRTSRAPSTYTYTSRPRALPCQRSRYRDSLTOPDEEPMHYGNIMYDRRVIRGNTYALQTGPL
 LGRPDSLELQRQREARKRALARKQAQELRPQTPEPVEGRKHVDVQTELYLEEIADRIIEVDMECQTDAF
 LDRPPTPLFIPAKTGKDVATQILEGELDFDLEVKPVLEVLVGKTIQSLLEVMEEEELANLRASQREYE
 ELRNSERAQVRLQEEQERRHREEKERRKQQWEIMHKHNETSQIAARAFQRYLADLLPSVFGSLRDSG
 YFYDPIERDIEIGFLPWLMEVEKTMESYMGRTVLDMLIREVVEKRLCMYEHGEDTHQSPEPEDEPGGP
 GAMTESLEASFLEQSMSQTRELLLDGGYLQRTTYDRRSSQERKFMEEREELLGQDEETAMRKSLGEEELS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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.

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

RefSeq: [NM_031924.7](#)

RefSeq Size: 2200 bp

RefSeq ORF: 1257 bp

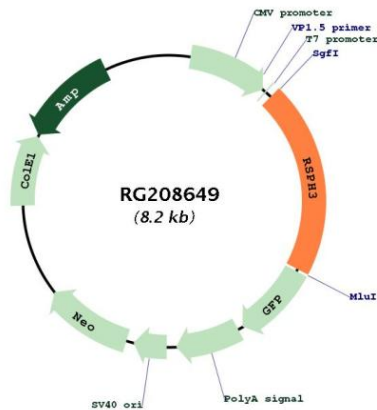
Locus ID: 83861

UniProt ID: [Q86UC2](#)

Cytogenetics: 6q25.3

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 RG208649