

Product datasheet for **SC108370**

RSPH3 (NM_031924) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSPH3 (NM_031924) Human Untagged Clone
Tag:	Tag Free
Symbol:	RSPH3
Synonyms:	CILD32; dj111C20.1; RSHL2; RSP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_031924, the custom clone sequence may differ by one or more nucleotides

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ATGACGGTCAAGCCAGCCAAGGCCGCTCCCTAGCCAGGAACCTCGCAAAGCGCAGGCGCACCTACCTGG
GTGGCGCGGCTGGGCGGAGTCAAGAGCCGGAAGTCCCTTGTGCCGAGTCCTTCCCGGAAACCTGGGGA
CCGGAACCTGCCGAGTTCGCCGCCAGACAGAACCCTGGGTTGCTGGGCAACCGATGCGGCCCCCGCA
GCTGGTCTCTGTGGTGTGGGAGCGAGCCAGTATAGTCCACCTCCTGCGCTGGTAACCTCCCGTCCC
GCCCGCTCCCTTGTGTGCGCTCTCCTGCGTGGCGAATCCTTGCCTTGGCACTACTTACATCTCTC
CGGGTCCCAACACCTTAGCGCCACCTGCTTCAAAGCCAAGCTCCACCGAAAGCGAGGAGTACAGCC
CCGACATGGCTCAGCGCTGACTGATCGACCTCTCGGGCCCCGAGCACCTACCTACACAGCCGGC
CCCAGCACTGCCCTGCCAGCGCAGCGTTACCGGACAGCCTGACGCAGCCAGATGAAGAACCTATGCA
TTATGAAACATAATGTATGACAGAAGGGTAATTCGAGGTAACACTTATGCACTCCAGACAGGGCCACTG
CTCGACGGCCTGATTCTCTAGAGCTCCAGAGACAACGGGAGGCTAGGAAGAGGGCTCTTGCCAGAAAAC
AAGCCCAAGAGCAGCTCAGACCACAAACACCTGAACCTGTGAAGGCAGAAAGCATGTGATGTGCAAAAC
AGAATTATACCTTGAAGAAATTGCTGATCGCATATAGAAGTTGATATGGAATGCCAAACAGATGCATTT
TTGGACAGACCACCAACACCACTCTTTATTCTGCCAAAACCTGGCAAAGATGTGGCCACCCAAATACTAG
AAGGAGAGCTCTTTGACTTTGATCTTGAAGTTAAACAGTGTTAGAAGTTTTGGTGGGAAGACAATTGA
GCAGTCTCTTCTGGAAGTAATGGAAGAAGAAGAGCTGGCTAACCTGCGGGCCAGTCAGCGTGAGTATGAA
GAACACGGAATAGTGAACGTGCTGAAGTTCAACGACTTGAAGAGCAAGAGAGGCGACACCGAGAAGAAA
AAGAACGGCGTAAGAAACAGCAGTGGGAAATATGCACAAGCACAACGAGACATCACAAAAATCGCCGC
CCGAGCATTGTCACAGCGTTACCTGGCTGACCTTCTCCCGTCTGTTTTTGGCAGCCTCAGGGATAGTGGC
TACTTTTATGATCCCATTTGAAAGAGATATTGAGATAGGATTTCTCCATGGCTAATGAATGAAGTTGAAA
AAACCATGGAATATAGCATGGTGGGAAGAAGACAGTGCTTGACATGTTGATCCGTGAGGTGGTTGAAAAGAG
GCTGTGTATGTATGAGCATGGGGAAGACACATCAGTCTCCAGAACCCGAGGATGAGCCTGGTGGTCTCT
GGAGCAATGACAGAGTCACTGGAGGCTCTGAATTCCTGGAGCAGAGCATGTACAGACACGGGAGCTGC
TTTTAGATGGAGGCTACCTACAAAGAACAACATATGACAGAAGGTCATCCAGGAAAGGAAGTTTATGGA
AGAGAGAGAACTCTTAGGGCAAGATGAAGAAACAGCAATGAGGAAGTCCTTAGGGGAGGAAGATTGTCA
TAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031924 unedited

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GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGATGCGGCCCCCGCAG
CTGGTCTCTGTGGTGTGGGAGCGAGCCAGTATAGTCCACCTCCTGCGCTGGTAACC
TCCCGTCCCGCCCGCCTCCCTTGTGTGCGCTCTCCTGCGTGGCGAATCCTTGCCCTT
GGCACTACTTACATCTCTCCGGTCCCACAACACCTTAGCGCCACCTGCTTCAAAGCCA
AGCTCCACCGAAAGCGAGGCAGTCAGCCCCGGACATGGCCTCAGCGCTGACTGATCGCA
CCTCTCGGGCCCCGAGCACCTACACCTACACAGCCGGCCCCGAGCACTGCCCTGCCAGC
GCAGCCGTTACCGGACAGCCTGACGCAGCCAGATGAAGAACCTATGCATTATGGAACA
TAATGTATGACAGAAGGGTAATTCGAGGTAACACTTATGCACTCCAGACAGGGCCACTGC
TCGACGCGCTGATTCTCTAGAGCTCCAGAGACAACGGGAGGCTAGGAAGAGGGCTCTTG
CCAGAAAACAAGCCCAAGAGCAGCTCAGACCACAAACACCTGAACCTGTGAAGGCAGA
AAGCATGTCGATGTGCAACAGATTATACCTTGAAGAAATTGCTGATCGCATAATAGAA
GTTGATATGGAATGCCAAACAGATGCATTNTTGGACAGACCACCAACCACTCTNTATT
CCTGCCAAAACCTGGCAAAGATGTGGGCCACCCCAATACTAGAAGGAGAGCTCTTGACTT
TGATCTTGAAGTAAACCATGTTAGAAAGTTTTGGTGGGAAAGACAATGAGCAGTCTCT
TCTGGAAGTATGGAAGAGAACTGGCTACCTGCCGCAATCAGCGTGAGTTGAGACTAC
GATC
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_031924 unedited <pre> TGAACCGCGGGCCGAATCTAGNAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTGAACAGAGTTTTGCTCTTGTTGCCCAAGCTGGAGTGAATGGGGCAAAC TGGGTTACCGGAACCTCCGCCCCAGGTTCAAGGGATTCTCCTGCCTCAACCTCCCAAGTA GCTAGGACCACAGGCATGCGCCACCATGCCTGGGTAATTTGGATTTTAAACAAAAAAGG GGGTTCTCCTTGGTGGGCTGGGTGGGCTCAAACTCCCGACCTCAGGGGATCTGGCAGCCT CAACCTTCCAAAGGGGTGGGATTACAGGGGGGAGCCACCACCCCTGGGTAGGGATTTACT TTTACAGTAGGGGAAATAATTTTCCTATAAAAAAAAAAAAACTATATGGGTGACAGCACCG GTATTGGACATTAAATATCATACCTACTAAAAAAAAAACTAACCCGCAAAATTATAAGGGGT TAGGGAAATATATTTGCTGGGTACATATAATGGGGATAAAAAGCCAGCAATTAATATA AATCTCCTTAAATTAACAATATAGCCCTGAATATTCTATTAATAAATGAATTCAATTT AAGGTTCAATCTCAAATTAATTTTATCACATTTGATTGGGCCCGGCCATTTACAAAAAA GAATACTTGCTAAATACAACATAATTTCTATAACCTGAGGGGCGCGACAACAATACCT GATTGCTTGCTGAATTGGTGGTGAATGGGTCTATGAACCTGAAACCTTCCTTCTATGAA AAACTTCTCCCTAAGGAGATCCTCATGGTGGGTTTTCTTTGGCCCAAGAATTTCTTTC TTTCATAAACTCCTTCTTGGAAGACACTCTGTCAAAGGGGGGCCNGTAGGAAGCCCCC TTTAAAGAAAATCCCGGTTTGGCAAGGCTTTGTCCAGGAATTAAGACCCAGGACC TTGGTTTTTCCAAACACACAGCTCTCTGGGGTTTG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_031924
Insert Size:	2370 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_031924.1</u> , <u>NP_114130.1</u>
RefSeq Size:	2201 bp
RefSeq ORF:	1257 bp
Locus ID:	83861
UniProt ID:	<u>Q86UC2</u>
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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.