

Product datasheet for **SC327607**

RSPH4A (NM_001161664) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSPH4A (NM_001161664) Human Untagged Clone
Tag:	Tag Free
Symbol:	RSPH4A
Synonyms:	CILD11; dJ412I7.1; RSHL3; RSPH6B
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_001161664, the custom clone sequence may differ by one or more nucleotides <pre> ATGGAGGACTCAACCTCCCCGAAGCAAGAAAAAGAAAACCAAGAAGAACTAGGGGAAACA AGGCGGCCATGGGAAGGAAAGACAGCAGCTTCTCCCAATATTCTGAGCCTGAGTCGTCT GAGCCCTTGGAGGCGAAGCAGGGGCCAGAACTGGACGCCAGTCCCGAAGCAGCCGTCT TGGAGCCCGCAGTCTAGAGCCAAGACGCCTCTGGGTGGCCCCGCGGGACCAGAAACATCA TCACCTGCTCCTGTCTCTCCGCGGGAGCCCTCTTCTCTCCTTCTCCCTGGCTCCGGCC AGACAAGACCTCGCGGCACCACTCAGTCGGACAGGACCACGAGTGTGATTCTGAAGCT GGGACACCTTATCTGATCCTTTGGAACAATCATCTGATAAAAAGAGAATCAACTCTCAT CACACAAGCCAGTCAGAAGGAAACACCTTTCAACAGTCTCAGCAACCCAAACCCACCTG TGTGGACGAAGGGACGTGAGCTATAACAACGCTAAACAGAAAGAGCTGAGATTTGACGTT TTTCAGGAGGAAGACTCAAACAGTGAATGATTTACAGCAGCCGGCGCTGGGGCTCT GAAGTGGCCCCCAGCATGCTTGAGATCACCATTGAGAATGCTAAGGCTTACCTGCTGAAG ACTAGCAGCAATTCGGGCTTTAATCTATATGATCATCTTTCTAATATGTTGACCAAGATA TTAAATGAGCGTCTGAAATGCTGTTGACATCTTTGAAATATTAGCCAAGATGTGAAG ATGGCACATTTTAGTAAAAAATTTGATGCACTACAAAATGAGAATGAGTTGCTTCCAACA TATGAAATAGCAGAAAAGCAAAAGGCTCTTTTCTCCAGGGACATTTGGAAGGAGTTGAC CAAGAATTGGAAGATGAAATAGCAGAAAACGCTCTTCAAATGTAATGGAGTCAGCTTTT TATTTTGAACAAGCTGGAGTTGGTTTGGGCACAGATGAGACATACCGCATATTTCTTGCC CTCAAGCAGCTTACTGATACCCACCCAATCCAAAGATGCCGCTTCTGGGGAAGATCTTG GGTCTGGAATGAATTATATTGTAGCTGAAGTGAATTTCTGAGGGGGAAGATGAAGAG GAAGTGAAGAGGAAGATGTAGCTGAAGAGAGGGACAATGGAGAAAGTGAAGCTCATGAA GATGAGGAAGATGAATTACCAAAGTCCTTTACAAGGCCCCACAGGCTATACCAAAGAA GAAAGTAGAACAGGTGCCAACAAATATGTCTATTTTGTGCAATGAACAGGAAGACCA TGGGTGAAGTTACCAACGTTATACCTGCACAAATTGTTATTGCAAGAAAAATCAAGAAA TTTTTCACTGGGCGATTGGATGCTCCCATCATAAGCTACCCACCTTTCCAGGAAATGAG AGTAATTATTTACGAGCACAATTGCCGAATTTACGAGGAACCCACGTCAGTCCTCTA GGATTTTATCAGTTTGGTGAAGAGGAAGGAGAGGAGGAAGAGGCAGAAGGTGGGCGA AATAGCTTTGAGGAAAACCTGATTTTGAAGGCATCCAAGTATTGATCTAGTAGAATCC CTATCCAATTGGGTTTCATCATGTACAGCATATTCTCTCAGAGATTGAGAATATACCCC CCTGGACAACACGTTATCCTCAAATCTCATTCCACAATATGCTATTGCAGTCCTTCAAT CCAACCTTTGGCCTGGAGCATATGCCTTCTCAATGGCAAAAAGTTGAAATTTCTACA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001161664
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001161664.1, NP_001155136.1</u>
RefSeq Size:	2722 bp
RefSeq ORF:	1803 bp
Locus ID:	345895
UniProt ID:	<u>Q5TD94</u>
Cytogenetics:	6q22.1
Gene Summary:	This gene encodes a protein that appears to be a component the radial spoke head, as determined by homology to similar proteins in the biflagellate alga <i>Chlamydomonas reinhardtii</i> and other ciliates. Radial spokes, which are regularly spaced along cilia, sperm, and flagella axonemes, consist of a thin 'stalk' and a bulbous 'head' that form a signal transduction scaffold between the central pair of microtubules and dynein. Mutations in this gene cause primary ciliary dyskinesia 1, a disease arising from dysmotility of motile cilia and sperm. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009] Transcript Variant: This variant (2) is missing an exon in the 3' coding region compared to variant 1. This results in a frame-shift, and a shorter isoform (2) with a distinct C-terminus compared to isoform 1.