

Product datasheet for **SC316842**

RSPH10B2 (NM_001099697) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSPH10B2 (NM_001099697) Human Untagged Clone
Tag:	Tag Free
Symbol:	RSPH10B2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC316842 representing NM_001099697.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
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Restriction Sites: SgfI-MluI
ACCN: NM_001099697
Insert Size: 2613 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).
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_001099697.1</u>
RefSeq Size:	3106 bp
RefSeq ORF:	2613 bp
Locus ID:	728194
UniProt ID:	<u>B2RC85</u>
Cytogenetics:	7p22.1
Protein Families:	Druggable Genome
MW:	100.5 kDa
Gene Summary:	This gene encodes a protein component of the radial spoke head in flagella and motile cilia. Eukaryotic flagella and motile cilia share a common 9 + 2 structure, in which nine peripheral microtubule doublets (MTDs) surround a central-pair of microtubules (CP), with radial spokes connecting the MTDs to the CP. The radial spoke is a multi-protein complex that works as a mechanochemical transducer between the CP and the MTDs. The radial spoke contributes to the regulation of the activity of dynein motors, and thus to flagellar motility. PMID: 22754630 provides a good review of radial spokes. [provided by RefSeq, Jul 2017]