

Product datasheet for **MC221036**

Rsph4a (NM_001162957) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rsph4a (NM_001162957) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rsph4a
Synonyms:	A230081C05; Rshl3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221036 representing NM_001162957
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAACTCTACCTCTCTGAAACAAGAAAAGGAAAATCAAGAGCCAGGGGAAGCAGAGAGATTATGGC
 AAGGAGAGTCAGACGTTTCTCCCAAGGAGCCTGGTCCCCATCACCTGAGTACCGGGAAGAGGAGCAAAG
 GACAGACACCGAACCCGACCCAGAATGAGCCCTCTTGAGCCACCACTAGAGTCTAGAGTCTAGAGTCTAGC
 GGAGACCTCACCGCTGGACCAGAAGTGTATCCTCCCCTCCCCTCCTCCTCTGCAGTTTATTCCACTC
 CTCTCAACTGAACTACTCAGGATCTGTAGCTGCATCACCCACAGAGAAGACCGCTAATGGAATCGC
 TGACACCGGGACACCTTATTCTGATCCTTGGGAATCATCTTCTGCTGCAAAGCAATCACTTCTCACTAC
 ACAAGCCACGCCGAGGAAAGTACTTTCCCGCAGTCTCAGACCCCAACCTGACCTCTGTGGGCTAAGGG
 ATGCCAGCAGGAACAAGTCCAAGCACAAGGGGTGAGATTTGACCTTTTACAAGAGGAAGGCTCAGACAG
 TAACTGTGACCCAGACCAGCCTGAGGTTGGAGCCAGTGAAGCAGCCAGAGTATGCTTGAGGTGGCCATT
 CAGAATGCAAAAGCCTACCTGCTGAGTACCAGCAGCAAGTCTGGCTTAAATCTATATGACCATCTTTCTA
 AAGTGTGACCAAGATACTAGATGAGCGTCTGCAGATGCTGTTGACATCATTGAAAATATAAGCCAAGA
 TGTGAAAATGGCACAATTTAATAAAAAATTAGATACACTCCACAATGAATATGAGATGCTCCAGCATAT
 GAAATAGCAGAGACACAAAAGGCACTTTTTCTCCAGGGACATTTGGAAGGTGCTGATTGAGAAGTGGAGG
 AGGAAATGGCAGAAAGTTCTCTGCCAATGTGATGGAATCAGCTTATTATTTGAACAAGCTGGAGTTGG
 TTTGGGACAGATGAGACTTACCAGTATCTCTCGCCCAAGCAACTTACTGATACACACCCAATCCAA
 AGATGTCGCTTCTGGGCAAGATCTTGGGTCTGGAATGAACTATATTGTTGCTGAAGTGAATTTCTGTG
 CGGTGAAGAGGAGGAGGAAATTACCGAAGTCCTTGTATAAGGCCCCACAGGTTATACCTAAGGAAGAA
 AGTAGAACGGGTGCCAACAAGTATGTCTATTTTGTGCAATGTCCCTGGAAGGCCATGGGTAAGGTTAC
 CATCAGTTACACTGCACAAAATTGCACTGCAAGAAAAATCAAGAAAATTTTCACTGGGCGACTAGATGC
 AGCTGTCATAAGCTACCCACCCTCCCAGGAAATGAGAGCAATTACTTAAGAGCACAAAATGCCCGCATT
 TCAGCAGGACCCATGTCAGTCTCTAGGATTCTATCAGTTTGGTGAAGAGGAAGGAGAGGAAGAAGAGG
 TGGAAAGTGGTCGAGACAGCTATGAGGAAAACCCTGACTTTGAAGGCATCCAAGTATTGACTTGGTGG
 GTCTCTATCCAATTGGGTTTCATCAGTGCAGTATATTCTCTCAGGGTCGCTGTAATTGGTTCAACCT
 ATACAAAAGATGAAGATGAAGAAGAGGAAGAGGAAGAAGATGAAGAAAAGGGGGAAGAAGCTGACTACA
 TAGAGCAGGAAGTCGGACCTCTTTTACACCAATATCTGAAGATTTGGGGATTGAGAATATACCCTC
 TTGGACAACACAGCTGTCTTCAAATCTCATTCCACAGTATGCCATTGCTGTCTTCCGCTCCAATCTTTGG
 CCTGGAGCATATGCTTTTTCCAATGGCAAGAAGTTGAAAACCTTACATAGGCTGGGGTCATAAGTACT
 GTGTGGAGAATTACACACCCCAAGCCACCAGTTTATCAAGAAATCCCAGTGGACCAGAAATTAC
 AGAAATGAATGATCCCAGTGTGGAGGAGGAACAGGCTTTCAGGATGACACAAGAGCCAGTTGCACTTTCA
 ACTGAGGAGAACGAAGGAACTGAAGATGAAGATGAGGACGATGAGGACT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001162957
Insert Size: 2151 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:	<ol style="list-style-type: none">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_001162957.1, NP_001156429.1</u>
RefSeq Size:	3650 bp
RefSeq ORF:	2151 bp
Locus ID:	212892
UniProt ID:	<u>Q8BYM7</u>
Cytogenetics:	10 B1
Gene Summary:	Probable component of the axonemal radial spoke head (By similarity). Radial spokes are regularly spaced along cilia, sperm and flagella axonemes. They consist of a thin stalk which is attached to a subfiber of the outer doublet microtubule, and a bulbous head which is attached to the stalk and appears to interact with the projections from the central pair of microtubules.[UniProtKB/Swiss-Prot Function]