

Product datasheet for **RC231151**

C6orf206 (RSPH9) (NM_001193341) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	C6orf206
Synonyms:	C6orf206; CILD12; MRPS18AL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC231151 representing NM_001193341
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGACGCCGACAGCCTCTGCTGTCTCTGGAGCTGGCGTCCGGCAGTGGGCAGGGCCTCAGCCCGGACC
GTGGGGCCTCGCTGCTCACGTCTCTATGCTGGTTAAGCGCGACTACCGCTATGATCGGGTTCTCTTCTG
GGGCCGCATCCTTGGCCTCGTCGCCGATTACTACATCGCGCAGGGCCTGAGTGAGGACCAGCTCGACCG
CGCAAGACGCTCTATAGCCTGAAGTGCACAGAGTGGAGCCTTTGCCCTGCCACAGAGGAGATGGTGG
CGCAGTCGCTGTGGTGAAGGGCCGCTTCATGGGGGACCCATCATACGAATATGAACACACTGAGCTGCA
GAAGGTGAATGAAGGTGAAAAAGTCTTTGAAGAAGAAATAGTGATTGACAAGGCTGTGGCCATCATCCCC
CGAGGCGCCCTCTCAAGACCCCTTTTGGACCCACCCATGTCAATCGGACCTTTGAAGGACTGTCCTTGT
CTGAGGCCAAGAAGCTCAGCTCCTACTTCCATTTAGGGAGCCTGTTGAGCTAAGAATAAGACCTTGT
TGAGAAGGCTGACCTGGACCCCTCCCTGGATTTATGGAAGTCTTGGAGCATGACATCCCAAAGGGTCT
GAGGCAGTTGTTAGGGTGAATTCACGTGGCTTCTGAGCAGGTGTGGTTTGGTTGGCCCTGTTCTGGG
ACTCTGCTCTGTGTCCATGAGGGTCTGGAGCATCCAGATGGAGAGGGCAATGCCCTGGTGGTGTCTGC
GCAGCTGCTCTGGCCGGGCTCACCTTACCATGCTCCCGCACCAAGAAGTATGGCTACGCTACGT
GGGCACTGGCGAGAAGAACATGGACTTGCCCTTCATGCTATAGAATGGGAGCCAGCCTGGATGTTTTTAA
ACAGAGTC

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC231151 representing NM_001193341
Red=Cloning site Green=Tags(s)

MDADSLLLSLELASGSGQLSPDRRASLLTSLMLVKRDYRYDRVLFWGRILGLVADYYIAQGLSEDQLAP
RKTLYSLNCTEWSLLPPATEEMVAQSSVVKGRFMGDPSPSYEYEHELQKVNEGEKVFEIEIVIDKAVAIIP
RGALFKPTFGPTHVNRTEFGLSLSEAKKLSYFHFREPVELKNKTLLEKADLPDLPDMSLEHDPKGS
EAVVQGDFTWLLSRCGFGWPCSSVSMRVLEHPDGEQCPGQAAPALAGPHLLPCSPHQELWLRLR
GHWREEHGLALHAIEWAPMFLNVRV

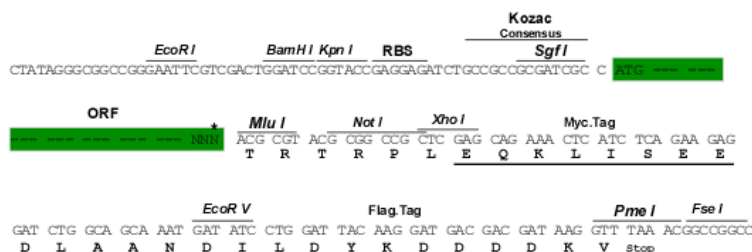
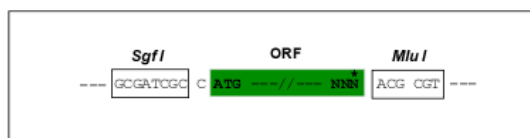
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001193341

ORF Size: 918 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_001193341.1](#), [NP_001180270.1](#)

RefSeq ORF: 921 bp

Locus ID: 221421

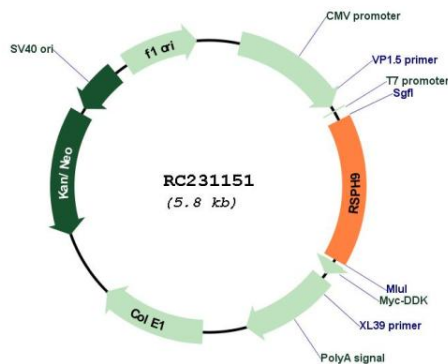
UniProt ID: [Q9HIX1](#)

Cytogenetics: 6p21.1

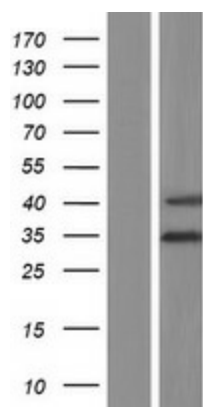
MW: 34.9 kDa

Gene Summary: This gene encodes a protein thought to be a component of the radial spoke head in motile cilia and flagella. Mutations in this gene are associated with primary ciliary dyskinesia 12. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jul 2010]

Product images:



Circular map for RC231151



Western blot validation of overexpression lysate (Cat# [LY434150]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231151 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).