

## Product datasheet for MC224985

### Rp111 (NM\_146246) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rp111 (NM_146246) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rp111
Synonyms:	BC031365; BE983540; Dcdc4; Rp1; Rp1h1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224985 representing NM_146246 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAACAGCACCCAGGAGACACGAGGGATGCTCCTGCACCAAGCCACCCTGCACCAAGCCACCGGCAGT  
GTCTCCTGCCCTCCGTGGCTCACACTCCCTCCGTTACTGAGGTGACACCGGCCAAGAAGATAACCTTCT  
CAAGCGAGGTGATCCCCAGTTTGTGGGTTTCGCCTGGCTGTTACCAGCGCACCTTCAAGACCTTCAGC  
TCCTAATGGATGAGCTGTCTCAGCGCATGCCTCTTCTTTGGGGTGCCTCCGTCACCAACCCCGGG  
GCTTGCATGGCCTCAGTGCCTGGAGCAGCTGCAAGATGGGGGCTGTACCTCTGCTCTGATAGGAAGCC  
CCCCAAAACCTCCAGAGAGCCAGGCCGGCTTCAACGGAAAAGCCCTCTGCTGGGCAGGCACAGGTTTTT  
CAAGGTGGGCATGAAGCTCCAGAAAACATCTATTCTGAAAAGTCCCCTGGCCCAAGGAGGCTGACTC  
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CGGCAGTTTTCTTGACGTGAGAGAGTCTGGTCTCAGTGACCATCCAGCATCCGGTTCATCGAGCCTGGG  
CAGGCCCTGCTTTGGACAGGTGCCCTCAGGACATGCCTGTCCCACCTGGTTCTTGGTGGCTGCTGATGA  
TGTGGAGAAGAAGGTCTGCATGAATGAGGACGGCAGTCTGTCTGTGGAGATGAAAGTCCGCTTCAAACCT  
CTGGGCGAGGACACCCTGCGGTGGTCCCAAAGGGTGGGGCAGGCCAGTGTCTTACAGCAGCCAGTGAA  
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TGACAAGGATAATCTCAGCCGAGTCTCAACTCCAGGCACCCTAGAAGTGTCCAGCCAGGCTCTGCTGT  
CCTTGGACTCCAGACGGGATACAGGCAGTGACACCTGCATCCAGTCTCCTCAGCTTCTCCACAATG



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AGACTGACCTGGAATCTGGTGAAGGCCTCTGCCTAGAGGACACAGGACCCCATGGCTCGAGACCTGAGAC  
 CCAAAGTACAGAAAGGGCCCTGTCTGATACATCAGTCACTGCAAGTCTCGTGAGGAGTCTAGTGAAGGT  
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 GGCTCTCAGGACACACAGAGAGATGCTCTCCAGCTCCTGCCTGTGCCCCAGCCCAATGGAGGCAGAGAA  
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 CCATGCCAGGCAGGATCACTATTACAGGACACTCAATCCTCACTGGACACAGCCTTGCAAATGCCAATG  
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 GAAGCAGATGGTGGTGTGACGCCGAGCGCTCTGCCTTACGCCTCTCCAGATGCTGTGTTTCGTGAGTGGC  
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 TCAGAAGAAACAGAAGGGAGAGTGAGAGAAAGGCTACAGGAAAATAGTGTCCATGGAAAGGGGCTGCCAG  
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 CAAGGCCAGCTCAGGAACCATGGCTCACAAGGGATCTCTGGACCCTGACCAATCTGGGTGTCCAAGCTG  
 CTGAAGAAGATAGAGAAAGCCTTCAATGGCTCACCTGGTGTGATGCCACAGCCGAACCTCCAGGCCGATGGG  
 ATCTTCATGACAATCACCTGCTGGACCAGATGGTGACCGAGCTGGAGCAGGATGTGGGCCGACGGCTGCA  
 GGCAAGCACTGTTATGGAAGTCAAGGAAGATCCAGAGCCGGGCAGGGAGGATGGTTCCAGAACCACCCCGG  
 GAAGCCCTCAGAGGCCAGGCTTCTACAGACAGAGCAGCGCAGGCGTCCCTTCCAGGGCTTGCAGCACT  
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 AGGGACCAAGTCAAGTGCAGAGCCTGCGGAGGATGAGTTCTGTCCCTGTGAAATCTGTCTGAAGAAGAA  
 AGGACCCCTAGATTCCCAAAGGATGCTGCAACAGTCTCTGGTGTCTGTGAGAAAGGCTTGGCTGAC  
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 AGGAAGGATGTTGTCTCAGGAGGACCTCGGAAGTGTCCAGGGAGCTGATGAGAAGCAAGGGCTTGGGGTG  
 GCTGAGGGAGAGGAGGGGAAAGGAAACAGAGGCTGAGAGCAGAGGAGGATCCCGAGATTTTGAACACAG  
 AAGGATCTGGTTGCTGTGCAACGAGAAGAGGATGAAGCCACTGAGGAAGATGGGGAATCTGCATCGGCAC  
 TGCCCAAGAAAGCCAGCAGTTAGAGGGGACTGAGATGGGCAAGGAGGGAACCCCTGCCCCAGAGCTTAGA  
 GATGGAGGCATTTAGAGGCTCCAGCAAGACAGGGTACCCACTCTGTGGAGATTGAGGAAGCTTCCAGAG  
 AAAGACAGCAGGAGGTAGAAGGAAGACATCAAGATGTAAGGAAGACAGTCTTGGGTGAGCTCAGGAGA

GAGCCAGGGAAGGGTGGGTTCTGAAAACACCAGCCTAGACCAAGAGGGGAGGCTCCTGAACCACCATCAA  
AGGCCAGGCCCCAGAGCCACCACAGCATGCTCCTCCAGGGCATTGTCTCTGGACAACAGTTCACAGG  
TGTCTCAGAAGGGCTCAGATGGAGACTTAACAAGTGGAGACCTCAAGTGCACCAAGCAAGAACAGCAG  
GGTATTGCATGCAGAGAAGAAAGTCCCCGTGATGTATCCAGAGAGATCCTCTTCTGAGCAAGAAGTCCCC  
TCCAGCCCAAGGCTTCCAAGCAAGGGAAGGGGAAGATGAAGGATCAGCTGGAAGCTTGGCTTGTACCC  
AGGTTGGGGCAAGGTAGATGGCTTTGGCCAGGATGACTTAGATTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_146246
<b>Insert Size:</b>	5580 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_146246.3</a> , <a href="#">NP_666358.2</a>
<b>RefSeq Size:</b>	6811 bp
<b>RefSeq ORF:</b>	5580 bp
<b>Locus ID:</b>	271209
<b>UniProt ID:</b>	<a href="#">Q8CGM2</a>
<b>Cytogenetics:</b>	14 D1
<b>Gene Summary:</b>	This gene encodes a member of the doublecortin family. This protein is a retinal-specific protein. It contains two N-terminal doublecortin domains, which can assemble and stabilize axonemal microtubules, but lacks the C-terminal repetitive regions including the 16aa repeat found in human RP1L1. This protein and the RP1 protein, another retinal-specific protein, play essential and synergistic roles in affecting photosensitivity and outer segment morphogenesis of rod photoreceptors. [provided by RefSeq, Sep 2010]