

Product datasheet for SC115781

RP2 (NM_006915) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RP2 (NM_006915) Human Untagged Clone
Tag:	Tag Free
Symbol:	RP2
Synonyms:	DELXp11.3; NM23-H10; NME10; TBCCD2; XRP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115781 sequence for NM_006915 edited (data generated by NextGen Sequencing)

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ATGGGCTGCTTCTTCTCCAAGAGACGGAAGGCTGACAAGGAGTCGCGGCCGAGAACGAG
GAGGAGCGGCCAAAGCAGTACAGCTGGGATCAGCGCGAGAAGGTTGATCCAAAAGACTAC
ATGTTTCAGTGGACTGAAGGATGAAACAGTAGGTCGCTTACCTGGGACGGTAGCAGGACAA
CAGTTTCTCATTCAAGACTGTGAGAACTGTAACATCTATATTTTTGATCACTCTGCTACA
GTTACCATTGATGACTGTACTAACTGCATAATTTTTCTGGGACCCGTGAAAGGCAGCGTG
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GATTGTAGAAAGCTGGAAGTCTTTTTGTGTTGTGCCACTCAACCCATCATTGAGTCTTCC
TCAAATATCAAATTTGGATGTTTTCAATGGTACTATCCTGAATTAGCTTCCAGTTCAAA
GATGCAGGGCTAAGTATCTTCAACAATACATGGAGTAACATTCATGACTTTACACCTGTG
TCAGGAGAACTCAACTGGAGCCTTCTTCCAGAAGATGCTGTGGTTCAGGACTATGTTCCCT
ATACCTACTACCGAAGAGCTCAAAGCTGTTTCGTGTTTCCACAGAAGCCAATAGAAGCATT
GTTCCAATATCCCGGGTCCAGAGACAGAAGAGCAGCGATGAATCATGCTTAGTGGTATTA
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GGCTTTTTCTAGTTCAGACAAAGGAAGTCCATGAAAGCTGAGGATGCTCAAAGGGTT
TTTCGGGAAAAAGCACCTGACTTCCTTCTTCTGAACAAAGGTCCTGTTATTGCCTTG
GAGTTTAAATGGGGATGGTGTCTGTAGAAGTATGTCAACTTATTGTAACGAGATATTCAAT
GGGACCAAGATGTTTGTATCTGAAAGCAAGGAGACGGCATCTGGAGATGTAGACAGCTTC
TACAACCTTGTGATATACAGATGGGAATATGA

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Clone variation with respect to NM_006915.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006915 unedited
 GATTTTGTAAACGACTCACTATAGGGCGGCCCGATTCCGGCACGAGGGGAAGTGCCTG
 AGCTAGTGAGCTGGCCAACGAGCTCCGCGGGCTGGGACCATGGGCTGCTTCTTCTCCAAG
 AGACGGAAGGCTGACAAGGAGTCGCGGCCGAGAACGAGGAGGAGCGGCCAAAGCAGTAC
 AGCTGGGATCAGCGCGAGAAGGTTGATCCAAAAGACTACATGTTCACTGGACTGAAGGAT
 GAAACAGTAGGTCGCTTACCTGGGACGGTAGCAGGACAACAGTTTCTCATTCAAGACTGT
 GAGAAGTGAACATCTATATTTTTGATCACTCTGCTACAGTTACCATTGATGACTGTACT
 AACTGCATAATTTTTCTGGGACCCGTGAAAGGCAGCGTGTTCCTCGGAATTGCAGAGAT
 TGCAAGTGCACATTAGCCTGCCAACAAATTCGTGTGCGAGATTGTACAAAGCTGGAAGTC
 TTTTTGTGTTGTGCCACTCAACCCATCCATTGAGTCTTCTCAAATATCAAATTTGGATG
 TTTTCAATGGTACTATCCTGAATTAGCTTTCAGTTCAAAGATGCAGGGCTAAGTATCTT
 CAACAATACATGGAGTAACATTCATGACTTTACACCTTGTGTATGAGAACTCACCTGGAG
 CCCTCTCCCGAAGATGCTGTGGCTCACGACTATGCTCCTATACCTACTACCGAAGAGCT
 CAAAGCTTTCGTGTTCCACAGAACCAATAAGAGCATTGTTCCATTTCCCGGGTCCAG
 GACCGAACAGCACCAGCAATCATGCTTAATGGCATTATTTCTGTGATTACCCTATTGCA
 ACGCCACAAAACAACTAAGTAAAGCGGTCCGTAAGCCTTTTCTATTAACAAGGACCGT
 TCTTGAAGCCCAGTGCTCACAGGTTTTCCGACAAAACAACTGACTTCTTTTGAAGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006915 unedited
 CAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAAATTTTAAACAACATTTATTACAAATCA
 CATTTTATAAACACTAGATAAAATTACATATAAAAGCTAGACATAAATATAAAGAAGCAAA
 AAAAAACAGCAGTACTATTAATGCAAGAGAAAATAAGCTAATATAATTTTAAACACATA
 TAACTTAATAAAATTACCAATTTTTTCATTGTTAATAATTTTTTCATAAATTCAAAAGCTAT
 TCAGAAATGAAATGTAATACATTCTGATTACTATCAAAGTTAGAATTATAGAAACAACC
 ATAGCACTACTTATTTTTTAAAATCGTTTTCAAACATTCAGAAGCCAAATGACTGTCCTTA
 AAGACAAATTAATGGGTAAAAGTCTTATCTAACAGAAGAATACAAAATTTTAAGCTTT
 GGTTAATAGATAAATAAGTGTAGTGGAAATTTTTAAATTAACATCTCCCTTATATGTTATA
 TTCCTGAGTTGTTGCTCAAATATCATAAAGAAGTATGTTTATAGCTTTATATAACATTGC
 ATTTTATTTTTGAAAAACAAAAGTATTGTTATTATTTGAAATGTGAATAATGGTGTGTTA
 ATAATATCATCATGGCCAGGCGCGGTAGCTCACACCTGTAATCCCAGCTCTTTGGGATGC
 TGAGGTGGACGGATCACCTGAGGTCAAGAGTTCGAGACAGCCTGACCAACGTGGATAAAC
 CCCATCTCAACTAAAATACAAAATTANCCAGGTGTAGTGGCGCATGCCTGTATTCCAGC
 TACTCAGGAAGCTGAGGCAGAGAATCGCTTGACACCAGAGGCGAATGTGTGTGAGCGATA
 TCGGCCATTGACTCAGCTGGGCACAGGATGGACTCCCCAAATATATATATATATATTTA
 TCTACGGATGGTCTTATTAGCTACTAGGAACTATGCGCTGAACCTTTGAAGATATTGA
 ATGGATCAAAATTAATGGACACTTATG

Restriction Sites:

ECoRI-NOT

ACCN:

NM_006915

Insert Size:

4000 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:

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: [NM_006915.1](#), [NP_008846.1](#)

RefSeq Size: 3813 bp

RefSeq ORF: 1053 bp

Locus ID: 6102

UniProt ID: [O75695](#)

Cytogenetics: Xp11.3

Domains: CARP

Protein Families: Druggable Genome

Gene Summary: The RP2 locus has been implicated as one cause of X-linked retinitis pigmentosa. The predicted gene product shows homology with human cofactor C, a protein involved in the ultimate step of beta-tubulin folding. Progressive retinal degeneration may therefore be due to the accumulation of incorrectly-folded photoreceptor or neuron-specific tubulin isoforms followed by progressive cell death [provided by RefSeq, Jul 2008]