

Product datasheet for **SC324220**

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: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006915.1
 CCGCGGGGCGTTGTCCGAGAGCTGCGAGGCCGGGGTCCAGGGTTCACGCCACTCT
 AGGAAGTGCCTGAGCTAGTGAGCTGGCCAACGAGCTCCGCGGGCTGGGACCATGGGCTGC
 TTCTTCTCCAAGAGACGGAAGGCTGACAAGGAGTCGCGGCCGAGAACGAGGAGGAGCGG
 CCAAAGCAGTACAGCTGGGATCAGCGCGAGAAGGTTGATCCAAAAGACTACATGTTCACT
 GGACTGAAGGATGAAACAGTAGGTGCTTACCTGGGACGGTAGCAGGACAACAGTTTCTC
 ATTTCAAGACTGTGAGAACTGTAACATCTATATTTTTGATCACTCTGCTACAGTTACCATT
 GATGACTGTACTAACTGCATAATTTTTCTGGGACCCGTGAAAGGCAGCGTGTTCCTCCG
 AATTGCAGAGATTGCAAGTGCACATTAGCCTGCCAACAATTCGTGTGCGAGATTGTAGA
 AAGCTGGAAGTCTTTTTGTGTTGTGCCACTCAACCCATCATTGAGTCTTCTCAAATATC
 AAATTTGGATGTTTTCAATGGTACTATCCTGAATTAGCTTCCAGTTCAAAGATGCAGGG
 CTAAGTATCTTCAACAATACATGGAGTAACATTATGACTTTACACCTGTGTCAGGAGAA
 CTAACCTGGAGCCTTCTCCAGAAGATGCTGTGGTTCCAGGACTATGTTCCCTATACCTACT
 ACCGAAGAGCTCAAAGCTGTTTCGTGTTCCACAGAAGCCAATAGAAGCATTGTTCCAATA
 TCCCGGGGTCAGAGACAGAAGAGCAGCGATGAATCATGCTTAGTGGTATTATTTGCTGGT
 GATTACACTATTGCAAAATGCCAGAAAATAATTGATGAGATGGTTGGTAAAGGCTTTTTCT
 CTAGTTCAGACAAAGGAAGTGTCCATGAAAGCTGAGGATGCTCAAAGGGTTTTTCGGGAA
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 GGGGATGGTGTGTAAGAAGTATGTCAACTTATTGTAACGAGATATTCAATGGGACCAAG
 ATGTTTTGATCTGAAAGCAAGGAGACGGCATCTGGAGATGTAGACAGCTTCTACAACCTT
 GCTGATATACAGATGGGAATATGAAGTGAATGTGGAACCAAGGACTTGGTATTAAGCCTT
 TCCCAACTTGTGAATATAGAATTTGATAATACACTTTTGTGATTAGCAATGGTTTTTAC
 TAATGCTAAAACCTTTAAAGTTTATTTTTAATAAATTGTTGAGTATTACATCATTTACT
 TGAGGTTCAAAAATAATTCATTTAAATTAAGTAGTTTTAATCAGCTTAAAAGCTATTTA
 ACCCATTTAATAAGCTTGCAGTTTTGTTCTCTGCATATGATATTCTTATTAGAAAACA
 GAAGTAGCTAAAAGTTTATTATTTAATCTATTTAAATGTTCTTCAAATCTCTAATAA
 TTTAAACTTTCCTCAGTGTCCATGATACTTTTTTTGAGACTCCATATCATTGCTTATTT



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TACCTTTTTCAATTTAGAGGGATTTGTTACTAGTCGATCAATTAGAATGAACCTATGCAC
 ATTTTTATGTACACATATCCAGTTATATAAATTGCTTCCTAGTTGCATTATATGGCAAATG
 AGATTTTGTACATGGAGTTGACATAAATACTTTGTAATTGAATTTTTAAAGAAATAGGC
 ATTTGATAACCAGCTTGGCAAGTAACTCTACTAACAGATGTTGGTATAGCTATTTAAAGA
 CTACTTCGTAAGTAGTATGATTATTTGAATAAATTACACATTGTTTAGTTTTTAATACA
 ACTGCTATATGACTCTTCTGCTTCCTGATAAGAAAAGGTATATGCAATGCTAAAACCTGTA
 GAAGCCCAATCACCAGCAGTTTTTAAAAAGGTGATAACTTTTTATTAGCTCTTGTGGGCTA
 TCAAGAGAATTAGAACAACCTTGTGACTTTTAGGTAAGAAATAGGCATGATGATAAGC
 TATGCAGATTATTTAAAAAGCTTGATACATTTGATTTTTTCATTAGATATGCCATTCATATC
 AAGTAATGTTCAAGTATGATAAAATTTTGGTTGCTTTAAAGCACTGTTTCCCAAATC
 TACCTGATCATAATAATTTACCAGGAAGCAGAGGAGAGCTACTTGTTTAAAAATCCACAT
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 GTATGTTGTAATCTAAAGTAATTTGGTTCAGGAGGTGCAATAGGTTGAACCTGTGAGAAG
 GCACTGAATCTGCCATCCACATCACATATAGCAGCTATTATGAAATCAGCTTTCATAGGC
 CTATTTTTAAAAGGAATCTGAAATTTAATTCTATTTTGATAAACTAAGACTGAAAATAA
 CCACTGTAAACATTCCTATGATTGTTACTAAAATGTATTTTCATGTTTTAAAATGTTTTT
 GGATATTTTTGGGTTAATAACTACTACATTGAATTGCATGTTAAGGTGCAGAAATAATAC
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 ATCACAATTTACAAATGATCTTTGCAAATAGTGGTCAGACGGCATTAGTTTTTCCCTTAG
 TTAAGCTAAATTAAGGGACTCCATCCTGTTATGATTATATTATTATTATTATTATTATT
 ATTTTTGAGTGGAGTTTCACTCTTGTGCCCCAAGCTGGAGTGAATGGCGCGATCTCGG
 CTCACCACAACATCCGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAG
 CTGGGAATACAGGCATGCGCCACTACACCTGGCTAATTTTTGTATTTTTAGTTGAGATGG
 GGTTTTTCCACGTTGGTCAAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCGTCCACCT
 CAGCCTCCCAAAGAGCTGGGATTACAGGTGTGAGCTACCGCGCCTGGCCATGATGATATT
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 ATGCAATGTTATATAAGCTATAAACTAAGTCTTTATGATATTTGAGCAACAACCTCAGG
 AATATAACATATAAGGGAGATGTTAATTTAAAAATTTCCACTACACTTATTATCTATTAA
 CCAAAGCTTAAAATTTTGTATTCTCTGTTAGATAAGACCTTTTACCCATTTAATTTGTC
 TTTAAGGACAGTCATTTGGCTTCTGAATGTTTGAACGATTTTAAAAAATAAGTAGTGCT
 ATGGTTGTTTCTATAATTCTAACCTTTGATAGTAATCAGAATGTATTACATTTTCATTCT
 GAATAGCTTTTGAATTTATGAAAAATTATTAACAATGAAAAATTGGTAATTTTATTAAGT
 TATATGTGTTTAAATATTATATTAGCTTATTTCTTGCATTAATAGTACTGCTGTTTTT
 GTTTTGCTTCTTATATTATGTCTAGCTTTTATATGTAATTTATCTAGTGTTTAAAAA
 TGTGATTTGTAATAAATGTTGTTAAAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** EcoRI-NOT
- ACCN:** NM_006915
- 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: [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]