

## Product datasheet for **RG208124**

### RP2 (NM\_006915) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RP2 (NM\_006915) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RP2  
**Synonyms:** DELXp11.3; NM23-H10; NME10; TBCCD2; XRP2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG208124 representing NM\_006915  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCTGCTTCTCTCCAAGAGACGGAAGGCTGACAAGGAGTCGCGGCCGAGAACGAGGAGGAGCGGC  
 CAAAGCAGTACAGCTGGGATCAGCGCGAGAAGGTTGATCCAAAAGACTACATGTTTCAGTGGACTGAAGGA  
 TGAACAGTAGGTCGCTTACCTGGGACGGTAGCAGGACAACAGTTTCTCATTCAAGACTGTGAGAACTGT  
 AACATCTATATTTTGTACTCTGCTACAGTTACCATTGATGACTGTACTAACTGCATAATTTTCTGG  
 GACCCGTGAAAGGCAGCGTGTTTTCCGGAATTGCAGAGATTGCAAGTGCACATTAGCCTGCCAACAAATT  
 TCGTGTGCAGATTGTAGAAAGCTGGAAGTCTTTTTGTGTGTGCCACTCAACCCATCATTGAGTCTTCC  
 TCAAATATCAAATTTGGATGTTTTCAATGGTACTATCCTGAATTAGCTTCCAGTTCAAAGATGCAGGGC  
 TAAGTATCTTCAACAATACATGGAGTAACATTCATGACTTTACACCTGTGTGAGGAGAACTCAACTGGAG  
 CCTTCTCCAGAAGATGCTGTGGTTCAGGACTATGTTCTATACCTACTACCGAAGAGCTCAAAGCTGTT  
 CGTGTTCACAGAAGCCAATAGAAGCATTGTTCCAATATCCCGGGTGCAGAGACAGAAGAGCAGCGATG  
 AATCATGCTTAGTGGTATTATTTGCTGGTGATTACACTATTGCAAATGCCAGAAACTAATTGATGAGAT  
 GGTGGTAAAGGCTTTTTCTAGTTCAGACAAAAGGAGTGCCATGAAAGCTGAGGATGCTCAAAGGTT  
 TTTCGGGAAAAGCACCTGACTTCCTTCTTCTGAACAAAGGTCCTGTTATTGCCTGGAGTTAATG  
 GGGATGGTGTGTAGAAGTATGTCAACTTATTGTAACGAGATATTCAATGGGACCAAGATGTTTGTATC  
 TGAAAGCAAGGAGACGGCATCTGGAGATGTAGACAGTCTCTACAACCTTGTGCTGATATACAGATGGGAATA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208124 representing NM\_006915  
 Red=Cloning site Green=Tags(s)

MGCFFSKRRKADKESRPENEEERPKQYSWDQREKVPKDYMF SGLKDETVGRLPGTVAGQQFLIQDCENC  
 NIYIFDHSATVTIDDCNTNCIIFLGPVKGSVFFRNCRDCKCTLACQQFRVRDCRKLLEVFLCCATQPIIESS  
 SNIKFGCFQWYYPELAFQFKDAGLSIFNNTWSNIHDFTPVSGELNWSLLPEDAVVQDYVPIPTTEELKAV  
 RVSTEANRSIVPISRGRQKSSDESCLVVLFA GDYTIANARKLIDEMVGKGFLLVQTKEVSMKAEDAQRV  
 FREKAPDFLPLLNKGPVIALEFNGDGAVEVCQLIVNEIFNGTKMFVSESKETASGDVDSFYNFADIQMGII

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006915

**ORF Size:** 1050 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.

**RefSeq:** [NM\\_006915.3](#)

**RefSeq Size:** 3813 bp

**RefSeq ORF:** 1053 bp

**Locus ID:** 6102

**UniProt ID:** [O75695](#)

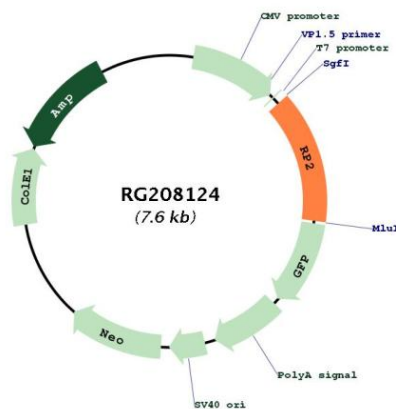
**Cytogenetics:** Xp11.3

**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]

### Product images:



Circular map for RG208124