

## Product datasheet for **RG210913**

### **C12orf51 (NM\_173813) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C12orf51 (NM_173813) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C12orf51
Synonyms:	AF-1 specific protein phosphatase; chromosome 12 open reading frame 51; DKFZp586O1022; FLJ10510; FLJ30092; FLJ30208; FLJ34154; FLJ34154, MGC126531; KIAA0614; MGC126531
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG210913 representing NM\_173813  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTGCATACACCAACTCAATCTTCTTCCACCAACCCCAATCTTCCAATCACAAGTGTCTTGGCAAGC  
AGCATCCAATTGAAGCACATCATCTTAGCAGTATTTGTGACATTATGGAGAAGGCCATGGTTAATGGAGA  
TACCTGTATTATACGCTGCATTCTCGTTGTCTTTCAGGTGGTATTTAAATTTTTCTTCAGCCACAAACT  
GAAAGGAATCGAGACATCATTGACGGTCGGGATTGCTTCTTGGCAGTTGTTGATGGCTCCAAAAGATC  
AAATTTGCCCTGAAATTCAGAAGGAAGTCTGCCTTGCCATCAGCTCTGGTTTAAATATCTGTACCCAGG  
TGAAACTGAAATCAATAACTTACTTAAACTGGTCTTAACAGAAGGAGAGAGAAACAGTGGACTCTCCAG  
CTACGGGATGTGATCCTAACCAACCTGGCTGAACAGCTCCAAAACAACCGATTTGGCAGTGATGAGGATG  
ATCATTACAGACTAAATGATGAACCTTTACACTACATTCTGAAGATTGTTGTACGAGAATCTGTATCTT  
AATCACCAGTGCCAACTGTCTCTAAAGATGATTTTCAAAGCTCCTTCAACTGTGCCTGCTGCATCC  
TCTGCTGCGCTATCTGATGGCAGTTCAGAATCACCTTCTCAGTAACACTATTTTGATTAACCTGATG  
AGAATGATGACAGTGACAGCTCCTTGCAGGGAGAGACATTGAAGGTACAGGAGCTAAAAGTCAGTATTTT  
GGCTCTTGCCACCCAAATCCTGACTGGATGTGATGAAGTGTGGAAATGCTACAGCAGGTACAACCTGCC  
CTCATAAATAGTGACATAGCAGACCGTGAGCAGAGGTTAAAAGGCTTGGAAACAAGTTACTAAGGCTACTA  
TGCTTGGTCACCTTCTCCAGTGTACTGACCTCCTTGATGCATCCAAATTTACAGACTCTGATCATGGC  
GGATGCCCTGATGCCTCAGCTAGTGCAGCTGGTACTCTATACCAGCCAGACGGCGTTGCTGCTTAAAACC  
CAGTGTCCGGTTTTTGTGAGGTGGCTGTTCCCGTGTGGTGCACCAGACCAGAAGTGCAGGCTGTTCC  
CTGATGAGAGAATGTTAGAAGAGAAGGAAGAGCCAGGATTTCTCACTGGTTTAAAGATTCTGCCCATG  
GGCTGCTGGAAGACTGTGGAACAGTCCACCCGTCAGAGACAACATAAATTTAAAGAAACGGTCCAT  
ATCCCAGGAGCTCGCTGCCTGTACCTTAGATTTGATAGCAGATGCTCTTCGCAATATGACTATGACAAAT  
TGGTGATATATGCGGGCCCTAACACAAACAGTAGGAAGTTGCTGAATATGGAGGCAACACACTGGGATA  
TGGCAGCCGTAGTGTCTTAGGAAGTGGTGGCCGAAAGACTTGGTGAAGGTGGAAGGAGATACAGTCACC  
TTCTCCTTTGAAATGAGAAGTGGCCGTGAACACAACACTCCTGATAAAGCCATGTGGGGCTTTGCTTGCA  
CAGTTCGCGCTCAGGAGTCTTCGGAGGATGTCTCAGGAGGCTTGCCTTTCTGGTAGACCTGGCTTAGG  
TCTGTCTGTGTTAGCTTGTCCATGTTAAGAATCCTGTACAATGGACCAGAAATTACCAAGAAGAAGAA  
GCCTGTCAGGAGCTATTGCGGTCCAACTTTTACAAAGGTGCCAGTGGCAGGTGGAGGCCAATGGCGTGA  
TCTCCCCTGCCCTTACTCCGAGCCCTCTCCACTGCCTCTGACCATAGAGGAAGACAGAGAATTCACCTA  
CCCCTCTGATGTCTCGTGCCTCCTGTTGAAACTACTTTGATCTGCCTCGGATCAGACTGCCTCCAGGA  
ATCATGATAAAGCTCAGGGAAATTTCTGGGCGTCTAGACCTCAATTTAGACCAAGTATAAAGTATGTTG  
CTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG210913 representing NM\_173813  
 Red=Cloning site Green=Tags(s)

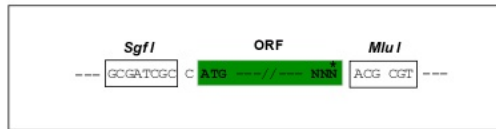
MCIHQNLNLLATNPPLPITSVLGKQHPHIEAHLSSICDIMEKAMVNGDTCIIRCILVVFQVVFKFFFSPQT  
 ERNRDIIRRSGLLLWQLLMAKPDQICPEIQKEVCLAISSGLNILYPGETEINNLLKLVLEGERNSGLSQ  
 LRDVILTNLAEQLQNNRFGSDEDDHYRLNDELLHYILKIIVVRESCILITKCQTVSKDDFQKLLSTVPAAS  
 SCLRYLMAVQNHLLSNTILIKPDENDDSSSLQGETLKVQELKVSILALATQILTGCDEVLEMLQQVTTA  
 LINSDIADREQRLLKGLEQVTKATMLGHLLPVLLTSLMHPNLQTLIMADALMPQLVQLVLYTSQTALLLKT  
 QCPVFAEVGCSPCGAPDQKCRLEPDERMLEEKEEPGFLTGLKIPAPWAAGKTVEVHPVRDNYKFKETVH  
 IPGARCLYLRFDSSQYDYDKLVIYAGPNTNSRKVAEYGGNTLGYGSRVLTGWPKDLVKVEGDVT  
 FSEMRSGREHNTPKAMWGFACVRAQESSEDSVGGLPFLVDLALGLSVLACSMRLILYNGPEITKEEE  
 ACQELLRSKLLQRCQWQVEANGVISPALTPSPSPLPLTIEEDREFTPSDVLPVPPVGNFYDLPRIRLPPG  
 IMIKLREISGRARPQFRPSIKYVAV

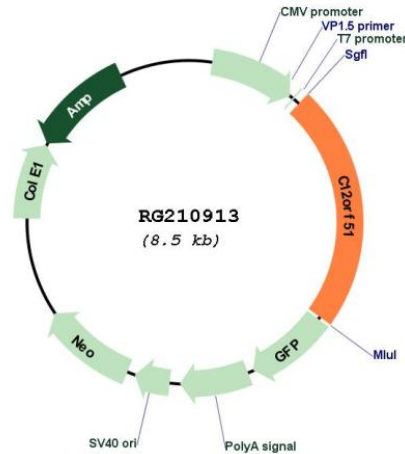
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_173813

**ORF Size:** 1965 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\\_173813.2](#), [NP\\_776174.1](#)

**RefSeq Size:** 2694 bp

RefSeq ORF: 1967 bp  
Locus ID: 283450  
Cytogenetics: 12q24.13