

## Product datasheet for **RG214817**

### **DTX2 (NM\_001102596) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DTX2 (NM_001102596) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DTX2
Synonyms:	RNF58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214817 representing NM\_001102596  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCATGGCCCAAGCCCTTCCTGGTGCAGGTGTACACCAGCCCCGGGCTGTGGCCGTGTGGGAAT  
 GGCAGGACGGGCTGGGCACCTGGCACCCCTACAGTGCCACCGTCTGCAGCTTCATCGAGCAGCAGTTTGT  
 CCAGCAGAAGGGCCAACGTTTTGGGCTTGGGAGCCTGGCCACAGCATCCCTTGGGCCAGGCAGACCCC  
 TCGCTGGCCCTTACATTATTGACCTCCCCAGCTGGACCCAGTTCGCCAGGACACCGGCACCATGCGGG  
 CTGTGCGGAGACACTGTTCCCCAGCACTCAGCCCTGGCCGAGGTGTCGTCTGGGAGTGGCTGAGCGA  
 CGATGGCTCCTGGACTGCCTATGAAGCCAGCGTCTGTGACTATCTGGAGCAGCAGGTGGCCAGGGGCAAC  
 CAGCTCGTGGACTTGGCCCCCTGGGGTACAACACTACTGTCAACTACACCACCCACACGCAGACCAACA  
 AGACTTCCAGCTTCTGCCGACGCTGCGCGCCAAGCAGGGCCGCTTACCCGGTACCACCATCATCGC  
 TCCGCCGGCCACACAGGCGTGCCTGCTTTGCCACCAGTGCCTCAGTGGCAGCAGAATGGCCCCGTG  
 TCAGGCCGCTACCGCCACTCCATGACCAACCTCCCTGCATACCCCGTCCCCAGCACCCCCACACAGGA  
 CCGCTTCTGTGTTTGGGACCCACAGGCCCTTGCACCGTACAACAACCCCTCACTCTCCGGGGCCCGGTC  
 TGCGCCAGGCTGAACACCACCAACGCCTGGGGCGCAGCTCCTCCTTCCCTGGGGAGCCAGCCCCCTAC  
 CGCTCCAGCCTCTCCACCTGGGACCGCAGCACCTGCCCCAGGATCCTCCACCTCCGGTGCAGTCAGTG  
 CCTCCCTCCCCAGCGTCCCTCAAGCAGCCAGGGAGCGTCCCTGCCACTGTGCCATGCAGATGCCAAA  
 GCCCAGCAGAGTCCAGCAGGCGCTCGCAGGAGCAGCCCGAAGCCAGAGCCAGAGCCAGAGCAGGTGATA  
 AAAAATACACGGAAGAGCTGAAAGTCCCCCAGATGAGGACTGCATCATCTGCATGGAGAAGCTGTCCA  
 CAGCGTCTGGATACAGCGATGTGACTGACAGCAAGGCAATCGGGTCCCTAGCTGTGGGCCACCTACCAA  
 GTGCAGCCATGCCTTCCACCTGCTGTGCCTCCTGGCCATGTAAGCAACGGAATGAGGATGGAAGTCTG  
 CAGTGTCCCTCCTGCAAAACCATCTATGGAGAGAAGACGGGGACCCAGCCCAAGGAAAGATGGAGGTAT  
 TACGGTCCAGATGTCGCTCCCCGGCCACGAGGACTGCGGGACCATCCTCATAGTTTACAGCATTCCCCA  
 TGGTATCCAGGGCCCTGAGCACCCCAATCCCGAAAGCCGTTCACTGCCAGAGGGTTTCCCCGCCAGTGC  
 TACCTTCCAGACAACGCCAGGGCCGCAAGGTCTAGAGCTCCTGAAGGTGGCTGGAAGAGGGCGGCTCA  
 TCTTACAGTGGGCACGTCCAGCACCGGGTGGAGCGGACCCGTGGTATGGAACGAGATCCACCACAA  
 GACAGAGATGGACCGCAACATTACGGGCCACGGCTATCCCGACCCCAACTACCTGCAGAACGTGCTGGCT  
 GAGCTGGCTGCCAGGGGTGACCGAGGACTGCCTGGAGCAGCAG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG214817 representing NM\_001102596  
 Red=Cloning site Green=Tags(s)

MAMAPSPSLVQVYTPAAVAVWEWQDGLGTWHPYSATVCSFIEQQFVQQKGQRFGLGSLAHSIPLGQADP  
 SLAPYIIDLPSWTQFRQDTGTMRAVRRHLFPQHSAPGRGVVWEWLSDDGSWTAYEASVCDYLEQQVARGN  
 QLVDLAPLGYNYTVNYTHTQTNKTSFRCRSVRRQAGPPYPVTTIIAPPGHTGVACSCHQCLSGSRTGPV  
 SGRYRHSMTNLPAYPVPQHPPHRTASVFGTHQAFAPYNKPSLSGARSAPRLNTTNAWGAAPPSLGSQPLY  
 RSSLSHLGPQHLPPGSSTSGAVSASLPSGSPSSPGSVPATVPMQMPKPSRVQQALAGATPKPEPEPEQVI  
 KNYTEELKVPPDEDICIICMEKLSTASGYSVTDSDKAIGSLAVGHLLTKCSHAFHLLCLLAMYCNGNKDGSL  
 QCPSCKTIYGEKGTGTPQGKMEVLRFOQMSLPGHEDCGTILIVYSIPHGIQPEHPNPGKPFPTARGFPRQC  
 YLPDQAQGRKVLLELLKVAWKRRLLIFTVGTSTTGETDVTVVWNEIHHKTEMDRNIIGHGYPDPNYLQNVLA  
 ELAAQGVTEDCLEQQ

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001102596

**ORF Size:** 1725 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\\_001102596.2](#)

**RefSeq Size:** 2138 bp

**RefSeq ORF:** 1728 bp

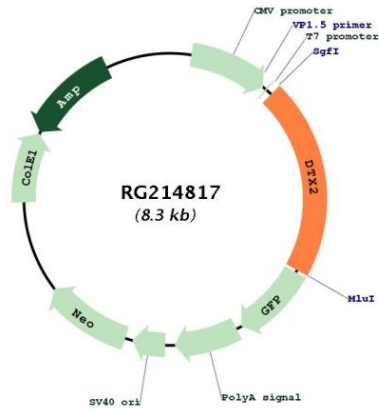
**Locus ID:** 113878

**UniProt ID:** [Q86UW9](#)

**Cytogenetics:** 7q11.23

**Protein Families:** Druggable Genome  
**Protein Pathways:** Notch signaling pathway  
**Gene Summary:** DTX2 functions as an E3 ubiquitin ligase (Takeyama et al., 2003 [PubMed 12670957]).  
 [supplied by OMIM, Nov 2009]

**Product images:**



Circular map for RG214817