

## Product datasheet for **MG210503**

### **Dnttip2 (NM\_153806) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dnttip2 (NM_153806) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dnttip2
Synonyms:	4930588M11Rik; AA408582; AU014960; HSU15552
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210503 representing NM\_153806  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGTACCAGGTCGGGCTCTCCCGACCAGGCTCCAAGAAAGCTCCAGCAGAAGAGGTCTGCTC  
 CTCGGAGAATTGGGACACATCTAGAAAGCACAAAGGAATCGGGATCCGATGGCAGCACAGCTGAATCGCA  
 GCCTGCTGAGAAACAGCACTCACGCAGCAGCAGAGAACCACAGGCCAGCGGAGATCATTGTGCTTATT  
 TCTGATGACGAGGCTTCTGAAACGGAGTCCCACACTTCTGGGGTACTTCTGTGTTAGAGGACCAAGAGC  
 CCATTGTAAGAGTAACTAGGAAACGGCAGATCGTAATTGCTTCCACCTCAAAGTCCACTGTTAGGAAAAG  
 GCAGAAAGTAGCCCTCAGCATGCATCTGCTGATGAAGTTGTTGTTTCTGAAGCAGAGTCTCATGTTTCA  
 GGGGTTTCTATGGTTGTACCTTCCACAGAGAGAAGCAGCAGAAAATAAGGCTAATTCTCAAAGAGATTCAA  
 GCCAAGAATCACAGTCGGAACTGTATCTGATGCTGAGTTGCTCCTGCTCAGGCATTTTCATCGTTAGAGAT  
 CTTGCCGAGAACAACAGCCAGGAATGTGAAGAAGAAATTACAGTCCCAGCTGAGAAAAACGATACTAAG  
 ATTACACCAGGAAATAAAAAGCAAATTTGTGGGTATGTCTGTGTGTTCCAGAGGACTCAGATGCTACTCAGT  
 TATCAGCAAGACCACTTTCTCAGAGAAATATGCCAAATGTTTCTGATAGTGAAACTTACAACAGTGACTT  
 TGATGATTCCAGCCCCAGAAATTCAGGGAAAAAAGTACAGCCCAAAACCACCAAAATTTGCATATCCAA  
 GAGGAAAAACGAGCCAATGTTGTGTCTTTACAGAAGTTAGAAAGGAGAAATTGTAAGAGTCTGGATGAAG  
 AGGACCTCAAATCACAGAGGAAAAAGTAAATTAATGAGAAAGATTCCCAGCGGAGTCTTTCTGAAGCTCA  
 AGACACCAGCCTTCAGCAGTCAGTGTCTCAGAATCATTCAAGCACCCCAAATAAAAAACCCACATTCCAG  
 CTTTCAAGTCCAGATCGGAAGGCTCTAATGAAATCATTAGAGCACAAAGTTGCAGTTGTGAATGTAGAAA  
 GGTGGAATGACAAGAGAGGGGGCAGCGGAAAAAGAGTACTGGCACAGCTCGGTGGTGGTGGTGG  
 TGGTGATGACAACGAGCCACGGGTGCAGGTATCAGTGATGACAAGAGCAGCCAAAGTGGTGTCCCTCTT  
 GAATGTGATACCAAACCATGCAAGTCTGAAGTCTGCAAGTCTGCAAGTCTGCAAGTCTGCAAGTCTGCA  
 TATTTCTTAGCAGCGATGAAAGCCAGCAGTCTGACAGCAGTGAGAATGAAAGGGACACTTTGTGTTCTGT  
 TGAAAACAATGGCCAAAAGGAGGCATCAGCTGAGGACCTGGAAGATGCCGCTGTGACAGTGCAGTGT  
 GTAATTGACAAAACCTCTGGATTGAGTGTGACAAAACTTTTACCTAGAAGACAAGGCTCCGAGTGAAG  
 TTGCTATTGAGGAAGAAAAAGAGGAAGAGGAGAAAAGAGGAGGAAAATAGTGAAGAAGACTCATCAGACAG  
 TGATGAGAATAAGGATGAGTCTAGTGACGAAGAAGACTTGCTCAGTAACACCAAGTCTAAGCTTCTGAAA  
 TTGACAAGTAGCAGCATAGACCCTGGACTGAACATCAAGCAGTTGGGTGGTCTGTATATTAATTTCAATG  
 TAGACAAACTGCAGCCTCACAAGGAAACTTAACCCAGATCAAGGAGAAAAAGAAAAATGAGCTTCTGCA  
 GAAAGCTGTCATTACACCTGATTTTAAAAAAGCATTGTGTCCACCATACAGTGAGTCCAAGCATCGA  
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 AACTGACAGATGAACTGAAAAATGACCTCAGAGCATTGAAGATGAGAGCAGGCATGGACCCAAAAGGTT  
 TTACAAGAAAAATGACAGAGATGGTTCCCTAAGTACTCCAGGTTGGAACCATTTGTTGATAATCCAGCC  
 GACTTCTACCATTACGAATCCCAAGAAACAGAGGAAAAAGACGATTGTGGAAGAACTGCTGGCTGACT  
 CTGAGTTCAGGAGATTTAATCGAAGGAAGTATTCAGAAATCATGGCTGAAAAAGCAGCAAATGCAGAAGG  
 AAAGAAGTTCAAGAAAAAGAAGAAATTTTCGCAAT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210503 representing NM\_153806  
 Red=Cloning site Green=Tags(s)

MVVTRSGLSRTRLQESSQQKRSAPRRIGTHLESTKESGSDGSTAESQPAEKQHSRSSRTTGPAEIIVLI  
 SDDEASETESHTSGVTSVLEDQEPIVRVTRKRQIVIASTSKSTVRKRQKVAPQHASADEVVVSEAESHSV  
 GVMVVPSTERSRNKANSQRDSSQESQSGTVSDAELSCSGISSLEILPRTTARNVKKKLQFPAEKNDTK  
 ITPGNKKQIVGMSVCSSESDATQLSARPLSQRNMPNVSDSETYNSDFDSSPRNSGKKLTAQNHQNLHIQ  
 EEKRVANVSLTEVRKENCKSLDEEDLKITEEKVINEKDSQRSLSEAQDTSLQQSVSQNHSSTPNKKPTFQ  
 LSSPDRKALMKSLEHKFAVNVNVERWNDKRGSGGKSDLAQLGGGGGGDDNEPTGAGISDDKSSQSGVPL  
 ECDTKPCKSEL SMTQD TTDSPVLLFLSSDESQQSDSENERDTLCSVENNGQKEASAEDLEDAACDSALF  
 VIDKTPGLSADKNFYLEDKAPSEVAIEEEKEEEKEEENSEEDSSSDENKDESSDEEDLLSNTKSKLLK  
 LTSSSIDPGLNIKQLGGLYINFVNDKLQPHKETLTQIKEKKKNELLQKAVITPDFEKKHCVPYSESKHR  
 LQKQRRKERQKTAGNGWFGMKAPELTDELKNDLRALKMRAGMDPKRFYKKNDRDGFPHYVQGTIVDNPA  
 DFYHSRIPKKQRKKTIVEELLADSEFRFRNRKYSEIMAEKAANAEGKKFKKKKKFRN

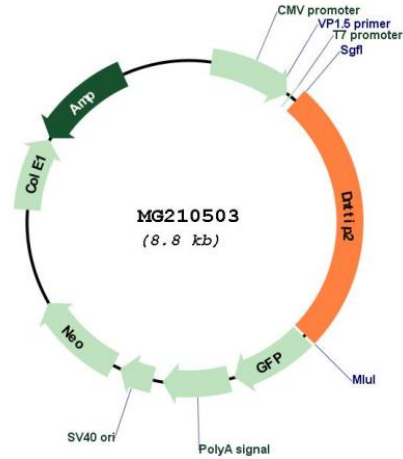
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_153806

**ORF Size:** 2274 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\\_153806.1](#), [NP\\_722501.1](#)

**RefSeq Size:** 2427 bp

**RefSeq ORF:** 2277 bp

**Locus ID:** 99480

UniProt ID: [Q8R2M2](#)

Cytogenetics: 3 G1

Gene Summary: Regulates the transcriptional activity of DNTT and ESR1. May function as a chromatin remodeling protein (By similarity).[UniProtKB/Swiss-Prot Function]