

Product datasheet for **RG213418**

DTX2 (NM_001102595) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DTX2 (NM_001102595) 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:

>RG213418 representing NM_001102595
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCATGGCCCAAGCCCTTCCTGGTGCAGGTGTACACCAGCCCCGGGCTGTGGCCGTGTGGGAAT
 GGCAGGACGGGCTGGGCACCTGGCACCCCTACAGTGCCACCGTCTGCAGCTTCATCGAGCAGCAGTTTGT
 CCAGCAGAAGGGCCAACGTTTTGGGCTTGGGAGCCTGGCCACAGCATCCCTTGGGCCAGGCAGACCCC
 TCGCTGGCCCTTACATTATTGACCTCCCCAGCTGGACCCAGTTCGCCAGGACACCGGCACCATGCGGG
 CTGTGCGGAGACACCTGTTCCCCAGCACTCAGCCCTGGCCGAGGTGTCGTCTGGGAGTGGCTGAGCGA
 CGATGGCTCCTGGACTGCCTATGAAGCCAGCGTCTGTGACTATCTGGAGCAGCAGGTGGCCAGGGGCAAC
 CAGCTCGTGGACTTGGCCCCCTGGGGTACAACACTACACTGTCAACTACACCACCCACACGCAGACCAACA
 AGACTTCCAGCTTCTGCCGACGCTGCGCGCCAAGCAGGGCCGCTTACCCGGTGACCACCATCATCGC
 TCCGCCGGGCCACACAGGCGTGCCTGCTTGGCACCAGTGCCTCAGTGGCAGCAGAATGGCCCCGTG
 TCAGGCCGCTACCGCCACTCCATGACCAACCTCCCTGCATACCCCGTCCCCAGCACCCCCACACAGGA
 CCGCTTCTGTGTTTGGGACCCACAGGCCCTTTCACCGTACAACAACCCCTCACTCTCCGGGGCCCGGTC
 TGCGCCAGGCTGAACACCACCAACGCCTGGGGCGCAGCTCCTCCTTCCCTGGGGAGCCAGCCCCTAC
 CGCTCCAGCCTCTCCACCTGGGACCGCAGCACCTGCCCCAGGATCCTCCACCTCCGGTGCAGTCAGTG
 CCTCCCTCCCCAGCGTCCCTCAAGCAGCCAGGGAGCGTCCCTGCCACTGTGCCATGCAGATGCCAAA
 GCCCAGCAGAGTCCAGCAGGCGCTCGCAGGCATGACGAGTGTCTGATGTAGCCATTGGACTCCCTGTG
 TGTCTTAGCCGCGCACCCAGCCACAGCCCTCCCGCTCCCGTCTGGCTTCCAAAAGTACGCGCTCAG
 TTAAGGATTGAGGAAAATGTCCGTGAAAGGAGCGACCCCGAAGCCAGAGCCAGAGCCAGAGCAGTGCAT
 AAAAAACTACACGGAAGAGCTGAAAGTGCCCCAGATGAGGACTGCATCATCTGCATGGAGAAGCTGTCC
 ACAGCGTCTGGATACAGCGATGTGACTGACAGCAAGGCAATCGGGTCCCTAGCTGTGGGCCACCTACCA
 AGTGCAGCCATGCCTTCCACCTGCTGTGCCTCCTGGCCATGACTGCAACGGCAATAAGGATGGAAGTCT
 GCAGTGTCCCTCTGCAAAACCTATAGGAGAGAAGACGGGACCCAGCCAGGAAAGATGGAGGTA
 TTACGGTTCAGATGTGCTCCCGGCCACGAGGACTGCGGGACCATCCTCATAGTTTACAGCATTCCCC
 ATGGTATCCAGGGCCCTGAGCACCCCAATCCCGGAAAGCCGTTCACTGCCAGAGGTTTCCCGCCAGTG
 CTACCTCCAGACAACGCCAGGGCCGCAAGTCTAGAGCTCCTGAAGGTGGCCTGGAAGAGGCGGCTC
 ATCTTACAGTGGCAGCTCCAGCACACGGGTGAGACGGACACCGTGGTATGGAACGAGATCCACCACA
 AGACAGAGATGGACCGCAACATTACGGGCCACGGCTATCCCGACCCCAACTACCTGCAGAACGTGCTGGC
 TGAGCTGGCTGCCAGGGGGTGACCGAGGACTGCCTGGAGCAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213418 representing NM_001102595
 Red=Cloning site Green=Tags(s)

MAMAPSPSLVQVYTPAAVAVWEWQDGLGTHWHPYSATVCSFIEQQFVQQKQRFGLGSLAHSIPLGQADP
 SLAPYIIDLPSWTQFRQDTGTMRAVRRHLFPQHSAPGRGVVWELSDDGSWTAYEASVCDYLEQQVARGN
 QLVDLAPLGYNYTVNYTHTQTNKTSFRCRSVRRQAGPPYPVTTIIAPPGHTGVACSCHQCLSGSRTGPV
 SGRYRHSMTNLPAYVPQHPPHRTASVFGTHQAFAPYNKPSLSGARSAPRLNTTNAWGAAPPSLGSQPLY
 RSSLSHLGPQHLPPGSSTSGAVSASLPSGSSSPGVPATVPMQMPKPSRVQQALAGMTSVLMSAIGLPV
 CLSRAPQPTSPASRLASKSHGSKVRLRKMSVKGATPKPEPEPEQVIKNYTEELKVPPDEDICIICMEKLS
 TASGYSVDVDSKAIGSLAVGHLTKCSHAFHLLCLLAMYCNGNKDGLQCPCKTIYGEKGTQPQGMKMEV
 LRFQMSLPGHEDCGTILIVYSIPHGIQGPPEHPNPKPFTARGFPRQCYLPDNAQGRKVLLELLKVAVKRRR
 IFTVGTSSSTTGETDTVVWNEIHHKTEMDRNITGHGYPDPNYLQNVLAELAAQGVTEDCLEQQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none"> 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_001102595.1 , NP_001096065.1
RefSeq Size:	2550 bp
RefSeq ORF:	1869 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]