

## Product datasheet for **MG226646**

### Cdx2 (NM\_007673) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdx2 (NM_007673) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdx2
Synonyms:	Cdx-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226646 representing NM_007673 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTACGTGAGCTACCTTCTGGACAAGGACGTGAGCATGTATCCTAGCTCCGTGCGCCACTCCGGCGGCC  
TGAACCTGGCTCCGCAGAACTTTGTCAGTCCTCCGCAGTACCCGGACTACGGTGGTTACCACGTGGCGGC  
CGCGGGCGCTGCTACGGCGAACTTGGACAGCGCTCAGTCCCCAGGGCCATCCTGGCCACCAGCGTACGGC  
GCCCTCTCCGCGAGGACTGGAATGGCTACGCACCCGGGGCGCTGCGGCAGCCAACGCGGTAGCCACG  
GTCTCAATGGTGGCTCCCGGCCCGCTATGGGCTACAGCAGCCCCGCCGAATACCACGCGCACCATCA  
CCCGCATCATACCCGCACCATCCGGCCGCTCGCCGTCCTGCGCCTCCGGCTTGCTGCAGACGCTCAAC  
CTCGGCCCCCCGGGGCCCGCAGCCACCGCCGCCGGAACAGCTGTCCCCAGCGCCAGCGGCGAAACC  
TGTGCGAGTGGATGCGGAAGCCCGCGCAGCAGTCCCTAGGAAGCCAAGTAAAACCAGGACAAAAGACAA  
ATACCGGGTGGTGTACACAGACCATCAGCGGCTGGAGCTGGAGAAGGAGTTTCACTTTAGTCGATACATC  
ACCATCAGGAGGAAAAGTGAGCTGGCTGCCACACTTGGGCTCTCCGAGAGGCAGGTTAAATTTGGTTTC  
AGAACCGCAGAGCCAAGGAGAGGAAAATCAAGAAGAAGCAGCAGCAGCAACAGCAGCAGCAGCAACAACA  
GCCTCCACAGCCGCCCAACCTTCCAGCCTCAGCCGGGTGCCCTGCGGAGCGTGCCGGAGCCCTTG  
AGTCCTGTGACCTCCTTGCAAGGCTCAGTGCCTGGTTCTGTCCCTGGGGTCTGGGGCCAGCTGGAGGGG  
TTTTAAACTCCACTGTCAACCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226646 representing NM\_007673  
 Red=Cloning site Green=Tags(s)

MYVSYLLDKDVSMPSSVRHSGGLNLPQNFVSPYPDYGGYHVAAAAAATANLDSAQSPGSPWPTAYG  
 APLREDWNGYAPGGAAAANAVAHGLNNGGSPAAAMGYSSPAEYHAHHHPHHHPHPAASPSCASGLLQTLN  
 LGPPGPAATAAAEQLSPSGQRRNLCEWMRKPAQQSLGSQVKTRTKDKYRVVYTDHQRLLEKEFHFSRYI  
 TIRRKSELAATLGLSERQVKIWFQNRRAKERKIKKKQQQQQQQQPPPPPPSQPQPQALRSVPEPL  
 SPVTSLQGSVPGSVPGVLGPAGGVLNSTVTQ

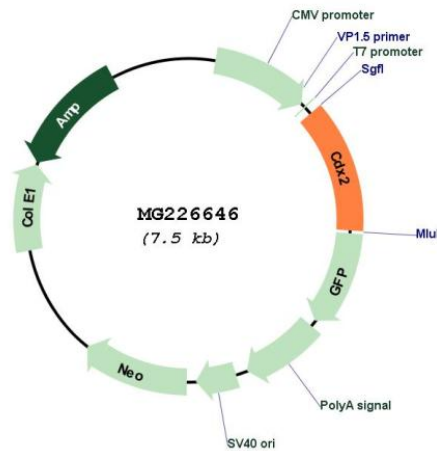
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_007673

**ORF Size:** 933 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_007673.3</a> , <a href="#">NP_031699.2</a>
<b>RefSeq Size:</b>	2145 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	12591
<b>UniProt ID:</b>	<a href="#">P43241</a>
<b>Cytogenetics:</b>	5 86.86 cM
<b>Gene Summary:</b>	Involved in the transcriptional regulation of multiple genes expressed in the intestinal epithelium. Important in broad range of functions from early differentiation to maintenance of the intestinal epithelial lining of both the small and large intestine. Binds preferentially to methylated DNA.[UniProtKB/Swiss-Prot Function]