

Product datasheet for **SC306746**

OTX3 (DMBX1) (NM_172225) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OTX3 (DMBX1) (NM_172225) Human Untagged Clone
Tag:	Tag Free
Symbol:	OTX3
Synonyms:	MBX; OTX3; PAXB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306746 representing NM_172225. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGCAGCACTACGGGTGAACGGCTACTCACTGCACGCCATGAACCTCACTCAGCGCCATGTACAACCTG
 CACCAGCAGGCAGCCAGCAGGCCAGCATGCCCGACTACCGCCTTCAGTGCATGCGCTTACATTG
 GCTGAGCGCTGGCTGACATCATCTTGGAGGCCGTTATGGTTCCAGCACCGCAAAACAGTCGCAGC
 CGCACAGCGTTCACGGCTCAGCAGCTCGAGGCCCTGAAAAGACCTTCAGAAGACTCACTACCCAGAT
 GTGGTGATGCGTGAGAGGCTGGCCATGTGCACCAACCTGCCTGAGGCCCGGTGCAGGTGTGGTTCAAG
 AACCGCCGGGCAAGTTCGGAAGAAGCAGCGTAGCCTGCAGAAGGAACAGCTCCAGAAGCAGAAGGAG
 GCTGAGGGCTCCCATGGGAAGGCAAGGCCGAGGCCCCACTCCAGATACCCAGCTGGACACTGAGCAG
 CCCCCACGCTCTGCCTGGCAGCGACCCCCCTGCTGAGCTTCACCTGAGTCTGTCTGAGCAGTCAGCCAGT
 GAGTCAGCCCCGAGGATCAGCCGAGCGTGAGGAGGACCCAGGGCAGGGGCTGAGGACCCCAAAGCT
 GAGAAGAGCCCTGGGGCTGACAGCAAGGGGCTGGGCTGCAAGAGGGGCAGCCCCAAGGCAGATTCCCCA
 GGCAGCCTGACCATCACTCCTGTGGCCCCAGGGGTGGCTCCTGGGCCCTCCCACTCCTATTCTCG
 TCCCCGCTGAGCCTCTTCCGTCTGCAGGAGCAATTCGCCAGCACATGGCGGCCACCAACAACCTGGTG
 CACTACTCGTCTTCAAGTAGGGGTCCGGCCCTGCTGCTGCAGCGGGGCTGCTGCTGTGCCCTAC
 CTGGGCGTCAACATGGCCCCGTGGGCTCACTGCACTGCCAGTCTACTACCACTCCCTGTCAGCAGCC
 GCTGCTGCCACCAAGGTGTGTGGGGTCTCCTCTGCTGCTGCACCCAGCAGGCTGGCTCCTGCA
 TCAGCTACCCTGAACAGTAAACCAACAAGCATCGAGAACCTGCGGCTCCGGGCCAAGCAGCACGCGGCC
 TCCCTGGGACTCGATACGCTGCCCAAC**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTAAACGGCCGGC

Restriction Sites: SgfI-MluI



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ACCN:	NM_172225
Insert Size:	1134 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_172225.1</u>
RefSeq Size:	2881 bp
RefSeq ORF:	1134 bp
Locus ID:	127343
UniProt ID:	<u>Q8NFW5</u>
Cytogenetics:	1p33
MW:	40.7 kDa
Gene Summary:	This gene encodes a member of the bicoid sub-family of homeodomain-containing transcription factors. The encoded protein acts as a transcription factor and may play a role in brain and sensory organ development. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) represents the longer transcript and encodes the shorter isoform (a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.