

## Product datasheet for **SC212019**

### **OTX2 (NM\_172337) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	OTX2 (NM_172337) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	OTX2
Synonyms:	CPHD6; MCOPS5
ACCN:	NM_172337
Insert Size:	1860 bp



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**Insert Sequence:** >SC212019 3'UTR clone of NM\_172337  
 The sequence shown below is from the reference sequence of NM\_172337. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
ACATCCTCGTGGAAATCCAGGTTTTGTGAAGACCTGTAGAACCTCTTTTTGTGGGTGATTTTTAAATA
TACTGGGCTGGACATTCCAGTTTTAGCCAGGCATTGGTTAAAAGAGTTAGATGGGATGATGCTCAGACT
CATCTGATCAAAGTTCGAGAGGCATAGAAGGAAAAACGAAGGGCCTTAGAGGGGCTACAAACCAGCA
ACATGAAATGGACAAACCAATCTGCTTAAGATCCTGTCATAGTTTTAGATCATTGGTTATCTGATTTG
CAAAGTGATCAAAGCATTCTAGCCATGTGCAACCAAACACCACCAAAAAATAAAATCAAACAAAATAA
GTTGTGAAGGAAGGGAGGGAAGGTCATAGCCTTCTTAAGCAGAGGTGTTCCATTGTTTTAGCCAATCCT
TGGTTGAATCTTAGGAATGAACAGTGTCTCAAGCTCATTACGTTTCATGACCAACTGGTAGTTGGCAC
TGAAAAAACTTTTCAGGGCTGTGTGAATTTGTGACTGATTGTCCTAGATGCACTACTTTATTTAAAAA
ATAATGTTCAATAAGGAGTCAATATGTAGTTAAGAGACAATCAGTGTGTGCTTATAAATGGTACATCT
GTGGTTTTTAATCTGTGCTAGACTTCAAACCTGTGATCTCCTGTTATTGTATGCAACCTGAACTCCAC
CTCTGCAGGGGTTCTTCTGTGATTAATAGGTTATAATTATAAGCAAAATTCAGAGCAACTGAGTACTG
ATCTAAAAAGATTACCTTTGGCTGGAGGTGAGCTGCACTGAAACTTTACGACAAAATGTCTCTGGACAA
AGAGAGTCAGAGAAGAGAAGCAAAGGACACTAATTCATCTGTAATTTACTGTTGGTAAGCCTAGCAGT
AAAGAGACATTGGTCAATTGCTCTGACCCTGATGAATTATAAAGTGAATCATTGTCGTTTATGCTTG
CAGATGTTAAATGGAAAAGTTATATATGCATAAACCTTTTCTTCTGGATTGGCAGATATGTATAAAT
ATATTAATGTTCTAGCACAACATTGGGTCCAGTTAATTTTACACCGCTATTTATGAATAAGAAGC
CTACATTCAGCCTTTCTCCCAAAACAGTTTTTTCTTAGGACAGAGAGTAAATTAGCAAACCTATTTT
TACTTTTTTTTTTGTGCTAATCTATGCATAAAAATAGATATGAATGACAGTGGTAGGTAGACTTTTTGTGA
CTTTCATCAGGATTGCTCTGAAATTGAGTTGGAGAGCCTAACACAAGATCTTGTTTTCTTGTCTTTT
CCCTCCCTACTTCAAACCTGAACGATTTCTTAGGCACTTTATTAGAATGTTTTAAATATATCAAGTTT
TTAAGAGGGAGGAGGAGAATTGGAGTATCTCTGAAAACATGAGAATGACAAGAATTTCTTGTACTATT
CTCTTATTTGATTAAGGGGATTTTTTTTTTTAACTTCCAAAACTGAGGTAAACATGAGAGGGAGTGT
AATCAGAACTGAAAGTAATTCAGGCAGAAATGATTCCTGAACAAAAGAGTTTCAGAAAAGTTTTAAAA
CCTATAATTTAGTAGTTGAACATAAGGCACCCTGGTCAGTTTGTGTATGTGTTAAGAAAGTGCCG
AGGGGGAAAAAATGGGTCCCTTTTCAAGTTGTACCTGCATTTTGTAAACCAGTCACCAGAAAAGACAAT
GGGCCAATGATCATGGTGCTCCTCAGGTAAAAGCAATATTTAATTTCAATTTAAGCTGCTTAAGCTCTT
ACAGCTGACCAAAATTAAGTGACTCTTGATTGTAAACGTTTTAAATGAAGGTTAGCAGTTGCAACCA
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_172337.3](#)

**Summary:**

This gene encodes a member of the bicoid subfamily of homeodomain-containing transcription factors. The encoded protein acts as a transcription factor and plays a role in brain, craniofacial, and sensory organ development. The encoded protein also influences the proliferation and differentiation of dopaminergic neuronal progenitor cells during mitosis. Mutations in this gene cause syndromic microphthalmia 5 (MCOPS5) and combined pituitary hormone deficiency 6 (CPHD6). This gene is also suspected of having an oncogenic role in medulloblastoma. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Pseudogenes of this gene are known to exist on chromosomes two and nine. [provided by RefSeq, Jul 2012]

**Locus ID:**

5015

**MW:**

71.6