

Product datasheet for **SC332966**

OTX2 (NM_001270523) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: OTX2 (NM_001270523) Human Untagged Clone
Tag: Tag Free
Symbol: OTX2
Synonyms: CPHD6; MCOPS5
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332966 representing NM_001270523.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGATGTCTTATCTTAAGCAACCGCCTTACGCAGTCAATGGGCTGAGTCTGACCACTTCGGGTATGGAC
TTGCTGCACCCCTCCGTGGGCTACCCGGCCACCCCGGAAACAGCGCCGGGAGAGGACGACGTTCACT
CGGGCGCAGTAGATGTGCTGGAAGCACTGTTTGCCAAGACCCGGTACCCAGACATCTTCATGCGAGAG
GAGGTGGCACTGAAAATCAACTTGCCCGAGTCGAGGGTGCAGGTATGGTTAAGAATCGAAGAGCTAAG
TGCCGCCAACACAGCAACAACAGCAGAATGGAGGTCAAACAAGTGAGACCTGCCAAAAAGAAGACA
TCTCCAGCTCGGGAAGTGAGTTCAGAGAGTGGAACAAGTGCCCAATTCCTCCCCCTCTAGCACCTCA
GTCCCGACCATTGCCAGCAGCAGTGTCTCTGTCTATCTGGAGCCAGCTTCCATCTCCCACTGTCA
GATCCCTTGCCACCTCCTCTTCTGCATGCAGAGGTCCTATCCCATGACCTATACTCAGGCTTCAGGT
TATAGTCAAGGATATGCTGGCTCAACTTCTACTTTGGGGCATGGACTGTGGATCATATTTGACCCCT
ATGCATCACCAGCTTCCCGGACCAGGGGCCACACTCAGTCCCATGGGTACCAATGCAGTCACCAGCCAT
CTCAATCAGTCCCAGCTTCTCTTCCACCCAGGGATATGGAGCTTCAAGCTTGGGTTTTAACTCAACC
ACTGATTGCTTGGATTATAAGGACCAAAGTGCCTCCTGGAAGCTTAACTCAATGCTGACTGCTTGGAT
TATAAAGATCAGACATCCTCGTGGAAATCCAGGTTTTGTGA
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Restriction Sites: Sgfl-Mlul
ACCN: NM_001270523
Insert Size: 870 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).
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).



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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:	<u>NM_001270523.1</u>
RefSeq Size:	2195 bp
RefSeq ORF:	870 bp
Locus ID:	5015
UniProt ID:	<u>P32243</u>
Cytogenetics:	14q22.3
Protein Families:	Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Transcription Factors
MW:	31.6 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an in-frame segment of the coding region, compared to variant 1, and, compared to isoform a, encodes a shorter isoform (b). Variants 2-4 encode the same protein (isoform b).</p>