

## Product datasheet for **SC320300**

### OTX1 (NM\_014562) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OTX1 (NM_014562) Human Untagged Clone
Tag:	Tag Free
Symbol:	OTX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_014562.2  
 ATCACCTAAACAACCGAGCAAGACAAGCCACTCCGACAAGGTTGGCTGCCCGGCGGGTCT  
 CTGTGAGAGATCCAGGTAGATGGTGAACGGCCCCGGCAGCTGAGGGCAGGCCAGGCCCCC  
 AGACGCATCAGACCCTGAAGGACTGCGTGGTGGGAGCCCTGCACCGCTCCTGGCCCCGGG  
 CCCCTGGATCCGTGGGGCGCCTCCACCCAGCTGTTAGCATGATGTCTTACCTCAAACA  
 ACCCCATACGGCATGAACGGCTGGGCTGGCCGGGCCCGCCATGGACCTCTGCACCC  
 ATCCGTGGGCTATCCGGCCACTCCGCGGAAGCAGCGGGGAGCGCACCCACCTTCACGCG  
 TTCACAGCTGGACGTGCTCGAGGCGCTCTTCGCCAAGACTCGTACCCTGACATCTTCAT  
 GCGGGAGGAGGTGGCGCTCAAGATCAACCTGCCGGAGTCTAGAGTCCAGTCTGGTTCAA  
 GAACCGCCGCGCAAATGCCGCCAGCAGCAGAGCGGGAGCGGAACCAAGAGCCGCC  
 AGCCAAGAAGAAGTCTCTCCAGTGCGGGAGAGCTCGGGCTCCGAAAGCAGTGGCCAATT  
 CACGCCGCAGCTGTGTCCAGCTCTGCCTCGTCTCTAGCTCGGCGTCCAGCTCTCCGC  
 CAACCCAGCGGCTGCAGCGGCTGCGGGACTAGGTGGAAACCCGGTGGCGGCCGCTCGTC  
 GCTGAGTACACCAGCTGCCTCATCTATCTGAGGCCGGCCTCCATCTCGCCAGGCTCAGC  
 GCCCGCTCCGTGTCGGTGCCGGAGCCATTGGCCGCGCCTAGCAACACCTCGTGTATGCA  
 GGCTCCGTAGCTGCAGGCGCCGCCACCCGAGCAGCCTTATCCCATGTCCTACGGCCA  
 GGGCGGAGCTACGGCCAAGGCTACCCTACGCCCTCCTTCTACTTTGGCGGCGTGGAA  
 CTGCAGCTCATACCTAGCGCCATGCACTCACATCACCACCCGCACCAGCTGAGCCCCAT  
 GGCACCTCCTCCATGGCGGGCCACCATCATCACCACCCACATGCGCACCACCCGTTGAG  
 CCAGTCTCAGGCCACCACCACCACCATCACCACCACCACCACCAAGGCTACGGTGGCTC  
 TGGGCTTGCCCTCAACTCTGCCGACTGCTTGGATTACAAGGAGCCTGGCGCCGCTGCTGC  
 TTCCTCCGCTGGAACCTCAACTTCAACTCCCCGACTGTCTGGACTATAAGGACCAAGC  
 CTCATGGCGGTTCCAGGCTTGTGAGCCAGGAATGAAAGAGGAGAAGAAACGCAACTAC  
 CTGCGCCCTCCGTGGTCCCGATCCTGTTGCTGCTGCTGCACCCGCCCTTTGCCTCGTC  
 TTCTCAAACAACTGAATTTTCAACCCCAAAAAGATGTCCATTGCCTGCACTGCCGCCCC  
 ATTTTTGTGCACTTGTGTTGGGGGATGTGAAACCCACCTGCCCTTGGATGGGGGA  
 CCGGTGCTTCGGCTTGGCTACACATTCTATACAGGAGAGATGTATTATTTCCCCCTTC  
 AGCCCTACTAACTCTAAGCCTCCCCTTCCAGTCTTTCTGGACAGCTATTAAGCACTT  
 GCAGCCTTCGGAGGCTCTGCGCTCTGATCCGCTGTTTGGCCCAACTTTAATTTATTC  
 TTTCTGGACTGGAGTCACTAACTGGCGTGTCTGCCCATTGGAGCACCCGCACACTA  
 CTCAAAATCAAAACCACTAAGAGTTCCTCCCGCAGACTGCTGCCCTTCAGTGCCCT  
 CGATTTTGTCTCCACGCTGCCGGCCAGAGCCTCCCGCGTTCCTCCGCCCCAGCGGAGT  
 GCGCTGGGGCGGCCAGGGCTAGGCCCGCCGGAGGAGCGCGTCCCCAGCCTTCCGCGCAC  
 AGAGCCGCATCCCGCCCCGCCCTGCGCTGGACTGGTTCAAGCTTCCGCTCGGCGGGAAC  
 GCTGTACATAGTCAGGTCGGTCCAGGGACCCTAAACTTTTTAGTTGCTGTTGGTTGG  
 TTGAACTGAACATATCTGTCTTAGCACCCAGGAAACAGAAGCTTAAGATATATACAGCA  
 CATATATATATATACATATATATATACATATATAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_014562

**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).

<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_014562.2</a> , <a href="#">NP_055377.1</a>
<b>RefSeq Size:</b>	2176 bp
<b>RefSeq ORF:</b>	1065 bp
<b>Locus ID:</b>	5013
<b>UniProt ID:</b>	<a href="#">P32242</a>
<b>Cytogenetics:</b>	2p15
<b>Domains:</b>	homeobox, TF_Otx
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>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. A similar protein in mouse is required for proper brain and sensory organ development and can cause epilepsy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]</p> <p>Transcript Variant: This variant (1) encodes the functional protein. Variants 1 and 2 encode the same protein.</p>