

Product datasheet for **SC120421**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014562, the custom clone sequence may differ by one or more nucleotides

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ATGATGTCTTACCTCAAACAACCCCATACGGCATGAACGGGCTGGGCCTGGCCGGGCCGCCATGGACC
TCCTGCACCCATCCGTGGGCTATCCGGCCACTCCGCGGAAGCAGCGGGGAGCGCACCCTTCACGCG
TTCACAGCTGGACGTGCTCGAGGCGCTCTCGCCAAGACTCGCTACCCTGACATCTTCATGCGGGAGGAG
GTGGCGCTCAAGATCAACCTGCCGGAGTCTAGAGTCCAGGTCTGGTTCAAGAACCGCCGCGCAATGCC
GCCAGCAGCAGCAGAGCGGGAGCGGAACCAAGAGCCCGCCAGCCAAGAAGAAGTCCTCTCCAGTGCGGGA
GAGCTCGGGCTCCGAAAGCAGTGGCCAATTCACGCCGCCAGCTGTGTCCAGCTCTGCCTCGTCTCTAGC
TCGGCGTCCAGCTCTCCGCCAACCAGCGGCTGCAGCGGCTGCGGGACTAGGTGGGAACCCGGTGGCGG
CCGCGTGTGCTGAGTACACCAGCTGCCTCATCTATCTGGAGCCCGGCCTCCATCTCGCCAGGCTCAGC
GCCCCGTCCGTGTGGTGCCGGAGCCATTGGCCGCGCCTAGCAACACCTCGTGTATGCAGCGCTCCGTA
GCTGCAGGCGCCGCCACCGCAGCAGCCTTTATCCCATGTCTACGGCCAGGGCGGCAGCTACGGCCAAG
GCTACCTACGCCCTCTCTTCTACTTTGGCGGCGTGGACTGCAGCTCATACCTAGCGCCCATGCACTC
ACATCACCACCCGCACCAGCTCAGCCCCATGGCACCTCTCCATGGCGGGCCACCATCATCACCACCCA
CATGCGCACCACCCGTTGAGCCAGTCTCAGGCCACCACCACCACCATCACCACCACCACCAAGGCT
ACGGTGGCTCTGGGCTTGCCCTTCAACTCTGCCGACTGCTTGATTACAAGGAGCCTGGCGCCGCTGCTGC
TTCTCCGCTGGAACCTCAACTCAACTCCCCGACTGTCTGGACTATAAGGACCAAGCCTCATGGCGG
TTCCAGGTCTTGTA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014562 unedited CAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTCTTCATC AGGCTACATTTCCAATCACCTAAACAACCGAGCAAGACAAGCCACTCCGACAAGTTGGC TGCCCCGGCGGGTCTCTGTGAGAGATCCAGGTAGATGGTGAACGGCCCCGGCAGCTGAGGG CAGGCCAGGCCCCAGACGCATCAGACCCTGAAGGACTGCGTGGTGGGAGCCCTGCACCG CTCCTGGCCCCGGCCCCCTGGATCCGTGCGGGCGCCTCCACCCAGCTGTTAGCATGATG TCTTACTCAAACAACCCCCATACGGCATGAACGGGCTGGGCCTGGCCGGGCCCGCCATG GACCTCCTGCACCCATCCGTGGGTATCCGGCCACTCCGCGGAAGCAGCGCGGGAGCGC ACCACCTTCACGCGTTCACAGCTGGACGTGCTCGAGGCGCTCTTCGCAAGACTCGCTAC CCTGACATCTTATGCGGGAGGAGGTGGCGCTCAAGATCAACCTGCCGAGTCTAGAGTC CAGGTCTGGTTCAAGAACCGCCGCGCAAATGCCGCCAGCAGCAGAGCGGGAGCGGA ACCAAGAGCCGCCAGCCAAGAAGAAGTCTCTCCAGTGGGGAGAGCTCGGGTCCGAA AGCAGTGGCCAATTCACGCCCGCAGCTGTGTCCAGCTCTGCCTCGTCTTAGCTCGGGC TCCAGCTCTCCGCCAACCCAGCGGCTGCAGCGGCTGCGGGACTANGTGGGAACCCNGTG GGCGGCGCGTCTGCTGAGTACCAGCTGCCTCATCTATCTGGAGCCCGNCTNCATCT CGNCAGGCTCACGCCCGCNTCCGTGGTGGTGGCGGAGCCATTGGCCGCGCCTGCAACA ACTCGTGTTCAGNGCTNCGTAGCTGCAGGCGCCGACCCGACGAGCTCTTATCCCATGT CTACGGCANGGCGGNAGCTACGGNCAGGN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014562 unedited CCCCTAGCTTGCCCGCGCCGCAATCTATATCGAGTTTTTTTTTTTTTTTTTTAATTAAT TTGCATTTATTTTCGGGAAGCAATGTAGATAAAGAGGAGGAGGGGACTGCCTTACATTT CAACAAGTAATTTGTGATCTTCACATCAGACAAATCAAATTTACAATTAATTTCCACC TACTGGACGAAGCGGCCAAAGCCAAAATTGATACAAAGGCGCGGGCTCTCCGCACATT TCGGAGAACGAAGGTGCATTAATAAATCACTACACAAAACAAGGGTGTCAAAGACACAA CTCGCACTCAGGACTCTGCACCTGGGTCCGGCCCTGCGCTCTGTTTGCCCTTCCCTCAC GCTGCACTTTTACGGACCTCGTTTCCGCCTTGTGCTTCGCCCTGGCTTTGGTTTTTT TGTTTTAGGTTTGTAAACTGGAAGTGGACCTGCGCTTAGACCGGGGAGGGGGCCACC CCTGCGCCCTGCCTAACCCACCTCTGTAAGTCCGACTTGCCTGTTTCTCCACCTT CGGATATCCGTGCCAGCTTTCTGAACCCAGCGCCCTTCTACTAAATACCCACAGG GACAATATGCGAACAGGGCATGCCAGCCTTTGTACCCACTGACAAAGAACCAAGCGCCAT TGATTGAGGAAAAGCACAAAGGGGACGGACCGAGGAAAATATTTTTTGTTCGTTTC CCACCCCGGGCCACATACACGNACATATACAAAACGGGCCGACAACCCCATAGTT TCGCTTTCCTGGGCGCCCGACACGACTGCTTTTCTCCACCCACCAACCTCACCTTAG GCTTACCCTTCCCTCCACCGCCTGACTTTTTATCCGCTCCCGCACGGCCGTAACCT TAC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_014562
Insert Size:	2890 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).

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: [NM_014562.2](#), [NP_055377.1](#)

RefSeq Size: 2176 bp

RefSeq ORF: 1065 bp

Locus ID: 5013

UniProt ID: [P32242](#)

Cytogenetics: 2p15

Domains: homeobox, TF_Otx

Protein Families: Druggable Genome, Transcription Factors

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. 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]
Transcript Variant: This variant (1) encodes the functional protein. Variants 1 and 2 encode the same protein.