

Product datasheet for **SC116854**

DLX3 (NM_005220) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLX3 (NM_005220) Human Untagged Clone
Tag:	Tag Free
Symbol:	DLX3
Synonyms:	A14; TDO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005220, the custom clone sequence may differ by one or more nucleotides

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ATGAGTGGCTCCTTCGATCGCAAGCTCAGCAGCATCCTCACCGACATCTCCAGCTCCCTTAGCTGCCATG
CGGGCTCCAAGGACTCGCCTACCCTGCCGAGTCTTCTGTCACTGACCTGGGCTACTACAGCGCTCCCA
GCACGATTACTACTCGGGCCAGCCCTATGGCCAGACGGTGAACCCCTACACCTACCACCACCAATCAAT
CTCAATGGGCTTGCAGGCACGGGCGTACTCGCCCAAGTCGGAATATACCTACGGAGCCTCCTACCGGC
AATACGGGGCGTATCGGGAGCAGCCGCTGCCAGCCAGGACCCAGTGTGGTGAAGGAGGAGCCGGAAGC
AGAGGTGCGCATGGTGAATGGGAAGCCCAAGAAGTCCGAAAGCCGCGTACGATCTACTCCAGCTACCAG
CTGGCCCGCCTGCAGCGCCGCTCCAGAAGGCCAGTACCTGGCGCTGCCGAGCGCGCCGAGCTGGCCG
CGCAGCTGGGCCTCACGCAGACACAGGTAAAACTGGTTCAGAACCGCGTTCCAAGTCAAGAACT
CTACAAGAACGGGGAGGTGCCGCTGGAGCACAGTCCCAATAACAGTGATTCCATGGCCTGCAACTACCA
CCATCACCCGCCCTCTGGGACACCTCTCCCACTCCACTCCGGCCCTGCCCGCAGTCAGCTGCCCCCGC
CGCTCCCATACAGTGCCTCCCCAGTACCTGGACGACCCACCAACTCCTGGTATCACGCACAGAACCT
GAGTGGACCCACTTACAGCAGCAGCCGCTCAGCCAGCCACCTGCACCATGCCTCTCCCGGGCCCCCG
CCCAACCCTGGGGCTGTGTACTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005220 unedited CACGAAAGAGCGGCCGGTCTCCCTTCGCCTTCTGGCCACACACCCCTGCCTCGTCTCT TCCGCCTCTTTGCACTCCGGTCCGTTCTGTCTCTGCGGAGGCCAGCCCTGGGGAGGT GCAGCGCCCGCCAGGATGAGTGGCTCCTTCGATCGCAAGCTCAGCAGCATCTCACCGAC ATCTCCAGCTCCCTTAGCTGCCATGCGGGCTCCAAGGACTCGCTACCCTGCCCGAGTCT TCTGTCACTGACCTGGGCTACTACAGCGCTCCTCAGCACGATTACTACTCGGGCCAGCCC TATGGCCAGACGGTGAACCCCTACACCTACCACCACCAATTCAATCTCAATGGGCTTGCA GGCAGGGCGCTTACTCGCCCAAGTCGGAATATACCTACGGAGCCTCTACCGGCAATAC GGGGCGTATCGGGAGCAGCCGCTGCCAGCCAGGACCCAGTGTGGTGAAGGAGGAGCCG GAAGCAGAGGTGCGCATGGTGAATGGGAAGCCCAAGAAGTCCGAAAGCCGCGTACGATC TACTCCAGCTACCAGCTGGCCGCCCTGCAGCGCCGCTT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005220 unedited CTANGACTCGGTTTTTTTTTTTACAATGTTTTACTGCANAGGGGTGGGGGAAAGTTAG CTTTGGTGGGATGTCTGGTCAGGGAGGGGCAGTGCCACCAGCCCTCCAGGCAGTTACCC CTTACTCCCAAAGGCACAAGTTCTAACTCTCCCTCCTCTCCGATACACCTCACCCGACA TTCTCCAGCTCGGAGCAATCTGTTTCCAAGGCCACCGAAAGGAGGTGTTTGGGGTTTTG TCTTGCCTGGTATGTCTTTGGAGATTTGGGTTTGGCACAAAACCTGCCAACTTACTG GAGGAGTAGAGAAGTGAGGTGGGGCAGGGACAGAACAGAGGCACCCTTGAAGGGGAG ACTTGGCCCTATCTGTGAACAATGCCCTTTGTTTTCTATTTTTCAACAGCTTTTAAAC CAAAGTTGTGCAAAGTCTGGACATGGAAGATATAAGTCCATAGGAAAAACGTCTGAGAC CCACCCCTCCTCTCGNAACGGANGATAGGGGAGAGAGATGGCTCCTTTAGTTCTTTCTC TAAAGCCACAAATATTAAGATTCCTCACTTANGGGGTTTTNCTTTGGTTTCACCCCT CAATCCTTAAATGAAGGCTAGAAGTGCAAGGGCGNTGACCAGTTTCATGTCCCCACCC CGGAGTCCCTCGTCATGATGTCCCACTGGTCTATTGNNCCGAGGGGCCCGCTCGAGCAG GGGGGAGACCACCAGAGCCTCAGGGAGGAACTAGGCCCGGGCAAGTTTTAANAATCCAC GGTGCCAAGTGGCCCAAGCCAGGGCAGGAACCCGAAACCTTCCAATTTTTTCCCCCA TCCCAAAGGTCTCCAGTCCGGGGGACAA
Restriction Sites:	ECoRI-NOT
ACCN:	NM_005220
Insert Size:	2250 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:	<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_005220.2</u> , <u>NP_005211.1</u>
RefSeq Size:	2613 bp

RefSeq ORF: 864 bp

Locus ID: 1747

UniProt ID: [O60479](#)

Cytogenetics: 17q21.33

Domains: homeobox

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: Many vertebrate homeo box-containing genes have been identified on the basis of their sequence similarity with Drosophila developmental genes. Members of the Dlx gene family contain a homeobox that is related to that of Distal-less (Dll), a gene expressed in the head and limbs of the developing fruit fly. The Distal-less (Dlx) family of genes comprises at least 6 different members, DLX1-DLX6. Trichodontoosseous syndrome (TDO), an autosomal dominant condition, has been correlated with DLX3 gene mutation. This gene is located in a tail-to-tail configuration with another member of the gene family on the long arm of chromosome 17. Mutations in this gene have been associated with the autosomal dominant conditions trichodontoosseous syndrome and amelogenesis imperfecta with taurodontism. [provided by RefSeq, Jul 2008]