

Product datasheet for **SC118955**

DLX4 (NM_001934) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLX4 (NM_001934) Human Untagged Clone
Tag:	Tag Free
Symbol:	DLX4
Synonyms:	BP1; DLX7; DLX8; DLX9; OFC15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118955 sequence for NM_001934 edited (data generated by NextGen Sequencing)

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ATGAAACTGTCCGTCCTACCCCTCGCTCCCTCCTCGCCCCCTACACCGTGTGTGCTGC
CCACCAGACTCGGAGAAGCCGCGCTGTCCCGGAACCCCTCCGAGCGGCGCCCTCAGGCC
CCCGCCAAAAAGCTCCGCAAGCCGAGGACCATCTACTCCAGCCTGCAGCTGCAGCACCTA
AACCAGCGTTTCCAGCACACGCAGTACCTGGCGCTGCCGAGAGGGCCAGCTGGCAGCG
CAGCTCGGCCTCACCCAGACCCAGGTAAGATCTGGTTTCAGAACAAACGCTCCAAGTAT
AAGAAGCTCCTGAAGCAGAATTCTGGGGGCAGGAAGGGGACTTCCCTGGGAGGACCTTC
TCTGTGCTCCCTGCTCCCCACCCCTCCCTCCCTCTGGGATCTACCCAAGGCAGGGACC
CTGCCACCAGTGGCTATGGCAACAGCTTGGAGCCTGGTATCAGCATCACTCCTCAGAT
GTCCTGGCTTCGCCTCAGATGATGTGA
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Clone variation with respect to NM_001934.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001934 unedited TTTAGTTCANAATTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACCAGGCTCTG TGCGCGCTGCCAACGAAGGAGGGGCTGCCCCACGCAGACCCGGCTTCTGGGGTCCCTG GAAACCCAGGCGGCCACGGTGTGGCGGGGAGACATGGTCACTTTTCTGCAGGGTGCGC CTGAGCAGAGGGGAGCCCGTTACAGTAGGCGAGGCCAGGGCAAACCCGGGGTCACTATC AGCGCTGCGGACTGGTATTCAAGTCTCTCAGCCGGGCTCTACCCACCCCGCTGGC CGCAGCCGGAGGCTGCCACGCGGACCCGTCTCAAGCCTCTGAGCATTGCTCTGAGCCTC TGCTTGCAATGTCTTCTGTCTATCTTAGGCCTCGGCTCAGCCCTGGACCTAGCCTT TCTGCCCCGCCCTACCCAAGCTGGCGCCACCGCCGTGGCTGAACTCCGACCTCCNACC GCAGGCGCCGCGGTACCCTGGCTGTGGCCCTCGGCGCTTCTTCTAGGGTACAGGACC CATACGAGTGGGAGCTCCCTGGGAGCAGAACTGCGTCTTGATACACCTGGCGCGTGAAC GTGNGGGTTGAAACGCTCCACGCGGAAGGTAGAGGGCAGGGGCCAAGGGGGCGATCCTG GTGGCTGCGCTTTTGTATTTGCTGCCGACGGCATGCAGACGAGATGCAAATAAGCTTA TGAAGTGTCCGCTACCCCTCGCTCCCTCCTCGCCCCCTACACCGTGTGTGCTGCC CACCAGACTCGGAGAAACCGCGGTGTCCCGGAACCCTTCGAGCGGCGCCCTCAGGCC CCGCCAAAGCTCCGAGCCGAGGACATCTACTCCAGCCTGCAGCTGCAGCACCTAAAA CAGCGT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001934 unedited NNGGGCACTTAGGTACGCGCCGCTGCTANGATCGGTTTTTTTTTTTTTTTTTTAGGA GAAACTAATTACCCTAGTCCCAATTCACATTTCTCTGCATCTCTTACCTCCCAGTAT GGTAAGTAGGTAATCAGTTATGGGGTAACGGGCTGACCTCCAAGGAAAAATCGCTGGG TGGGTGGGAGCTGATGGTGGTCCACTTCTGCTTTTGTCTACAAAATGGGTTGTGCAAGGCC AAAGGCATACAAAGAAAAAAAATACTCAATGTTTCTTGCTGATTTTGCACCCAGGCTGT AGTGGCGATTCACTCTTTCAAGAAAGCAGGGAGAGGAGAAAGGGAGAGAGGGAAGAAG GAGTGGGGAGTGGCAAGACCAAGGGTCTGGGACAGTCTCAACTCCAGCCAATGGCTC TCTCTCCAGAGTCTTTGTCCAGCTGGAGTGAAGGTGTCCAGTCCATGGTAGTGGTGGGA CAATGATTATATAAGGCTGAGGTCTTGATTTAGCTGTTAGGGTTAGGGGTACAGGCTCT GCTCCATTCTTTTTCTCTCAACTGCTTGTCTCCAGAGAAAACCCATCTGGAGCTGG TTTCTCCAGCCATAAGGGGTGCAGGTGGACTGCCTGGGCTCTGGGCTTTCAGGAAG GCTGTGGGCTGACCCGCCCTTCCCAGATTACATCATCTGAGGCGAAGCCAGGACATC TGANGAGTGATGCTGATACCAGGCTCAAAGCTTTGCCATAGCCACTGGTGGGCAGGGT CCTGCTGTTTTTCCCCCAAAGGGAGGGGAAGGTTTTGNNAACAANNAAAATTCAT AACTAGTCCA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001934
Insert Size:	2350 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_001934.2](#), [NP_001925.2](#)

RefSeq Size: 1405 bp

RefSeq ORF: 507 bp

Locus ID: 1748

UniProt ID: [Q92988](#)

Cytogenetics: 17q21.33

Domains: homeobox

Protein Families: 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. The DLX proteins are postulated to play a role in forebrain and craniofacial development. Three transcript variants have been described for this gene, however, the full length nature of one variant has not been described. Studies of the two splice variants revealed that one encoded isoform functions as a repressor of the beta-globin gene while the other isoform lacks that function. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) differs at the 5' end, and utilizes an alternate start codon compared to variant 1. This results in a shorter isoform (b) with a distinct N-terminus compared to isoform a, and lacks the beta-globin repressor function.