

Product datasheet for **SC109157**

DLX4 (NM_138281) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLX4 (NM_138281) 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:	>NCBI ORF sequence for NM_138281, the custom clone sequence may differ by one or more nucleotides

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ATGACCTCTTTGCCCTGCCCCCTCCCCGGCCGGGACGCCTCCAAAGCTGTCTTCCAGACCTCGCCCCTG
TCCCGTCGGTAGCGGCTGCCTACCCGCTTGGCTTGTCCCCTACAACCGCAGCCTCCCCAATTTGCCTA
CTCCAGGCCGTATGGCCACCTCCTGTCTTACCCCTACACCGAGCCAGCGAACCCCGGAGACTCCTACCTG
TCCTGCCAGCAACCCGGCGCTCTCTCAGCCCTCTGCGGACCTGCAGAGCACCTCAGGAACTCGAGG
CAGACTCGGAGAAGCCGGGCTGTCCCCGAACCCTCCGAGCGGCCTCAGGCCCCGCCAAAAAGCT
CCGCAAGCCGAGGACCATCTACTCCAGCCTGCAGCTGCAGCACCTAAACCAGCGTTTCCAGCACACGCAG
TACCTGGCGCTGCCCGAGAGGGCCAGTGGCAGCGCAGCTCGGCCTCACCCAGACCCAGGTAAGATCT
GGTTTCAGAACAAACGCTCCAAGTATAAGAAGCTCCTGAAGCAGAATTCTGGGGGCGAGGAGGGGACTT
CCCTGGGAGGACCTTCTCTGTGTCTCCCTGCTCCCCACCCTCCCTCCCTCTGGGATCTACCCAAGGCA
GGGACCCTGCCACCAGTGGCTATGGCAACAGCTTTGGAGCCTGGTATCAGCATCACTCCTCAGATGTCC
TGGCTTCGCCTCAGATGATGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_138281 unedited
 AAGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACCANANCACTTT
 CTCCGGGATCTTAAGTGTGGGGGCTGCTGGCTGGGGGGCCCGTCCGGCCAAACGCCGGAG
 GCTTGGAAAAGAGAGTTGGCAGCGGGAGCGGACTACGTGCCGGGCCATGGCCCTTCTGCC
 CGGGCCCTGGCCACAATGACCTCTTTGCCCTGCCCCCTCCCCGGCCGGGACGCCTCCAAA
 GCTGTCTTCCCAGACCTCGCCCCGTCCCGTCGGTAGCGGCTGCCTACCCGCTTGGCTTG
 TCCCCTACAACCGCAGCCTCCCCAATTTGTCTACTCCAGGCCGTATGGCCACCTCTCG
 TCTTACCCTACACCGAGCCAGCGAACCCCGGAGACTCCTACCTGTCTGCCAGCAACCC
 GCGGCGCTCTCTCAGCCCTCTGCGGACCTGCAGAGCACCTCAGGAACTCGAGGACGCA
 TTCTAGGGCTGGGCTGTCCCGCGCCGAGATTCCTGGAGAGCTAGGCGGGCCAGAGCTGA
 CCAGATCCCCCGCGCGGCACCGCAGCGGATCCAGGAGTGGCCCCGCCGGGCTACGCTG
 CGCGCTCTTGAACCCGGGTACCTTCCCTGCCCGGAAACCGCTCTGTGCGCGTGCC
 AACGAAGGAAGGGGCTGCCCCACGCAGACCCGGCTTCTGGGGTCCCTGNGAACCCAGGC
 GGCCACGGTGTGGCGGGGAGACATGGTCACTTTTCTGCAGGGTGCCTGNAGCAGAG
 GGCAGCCCGTTACAGTAGCGGAGCCAGGCAAACCCGGGGTCACTATCAGCGCTGCGAG
 ACTGGTATTCAGGGTCTCTCAGCCGGCCTCTACCCACCCGCTGCGCCGAGCCGGAAGC
 TTGCACNCA

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_138281 unedited
 CGCTTTGGAACCGCGCCGCATNCTAGNGATCGGTTTTTTTTTTTTTTTTTTTAGGAGGA
 AAGCATAAATTACCCATAGTCCACAAATCCACATTTCTCTGCATCTTCTACCTCCC
 AGTATGGTAAGTAGGTAATCAGTTATGGGGTAACGGGCTGACCTCCAAGGAAAAATCG
 CTGGGTGGGTGGGAGCTGATGGTGGTCCACTTCTGCTTTTGTCTACAAATGGGTTGTGCA
 AGGCCAAAGGCATACAAAGAAAAAAATACTCAATGTTTCTTGCTGATTTTGCACCCAG
 GCTGTAGTGGCGATTAGTCCTTTTCAAGAAAGCAGGGAGAGGAGAAAGGAGAGAGGGA
 AGAAGGAGTGGNGGGAGTGGCAAGACCAAGGGTCTGGGGACAGTCTCAACTCCAGCCAA
 TGGCTCTCTCCAGAGTCTTTGTCCAGCTGGAGTGAAGGTGTCCAGTCCATGGTAGTGG
 TGGGGACAATGATTATATAAGGCTGAGGTCTTGGTTAGCTGTTAGGGTTAGGGGTACA
 GGCTCTGCTCCATTCTTTTCTCTCTAACTGCTTGTCTCCAGAGAAAACCCATCTGG
 AGCTGGTTTCTCCAGCCAGAAAGGGTGCAGGTGACTGCCTGGTCTGGGCTTTGC
 AGGAAGGCTGTGGCCTGACCCGCCCTTCCCAGATTACATCATCTGAGGCGAAGCCAG
 GACATCTGGAGAGTGATGCTGATACCAGGCTCCAAGCTGTTGCCATAGCCACTGGTGG
 CAGGGTCCCTGCCTTGGGTAGATCCANAAGGAGGGAAGGGTGGATTTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_138281

Insert Size:

2750 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_138281.1](#), [NP_612138.1](#)

RefSeq Size: 1659 bp

RefSeq ORF: 723 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 (1) encodes the longer isoform (a, also known as BP1), which functions as a repressor of the beta-globin gene.