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Product datasheet for RC223036

DLX4 (NM_001934) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLX4 (NM_001934) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DLX4
Synonyms:	BP1; DLX7; DLX8; DLX9; OFC15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC223036 representing NM_001934
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAACTGTCCGTCCTACCCCCTCGCTCCCTCCTCGCCCCCTACACCGTGTTGTGCTGCCCACCAGACT
CGGAGAAGCCGCGGCTGTCCCCGGAACCCTCCGAGCGGCGCCCTCAGGCCCCCGCCAAAAAGCTCCGCAA
GCCGAGGACCATCTACTCCAGCCTGCAGCTGCAGCACCTAAACCAGCGTTTCCAGCACACGCAGTACCTG
GCGCTGCCCGAGAGGGCCCAGCTGGCAGCGCAGCTCGGCCTCACCCAGACCCAGGTAAAGATCTGGTTTC
AGAACAAACGCTCCAAGTATAAGAAGCTCCTGAAGCAGAATTCTGGGGGGCAGGAAGGGGACTTCCCTGG
GAGGACCTTCTCTGTGTCTCCCTGCTCCCCACCCCTCCCCTCCCTCTGGGATCTACCCAAGGCAGGGACC
CTGCCCACCAGTGGCTATGGCAACAGCTTTGGAGCCTGGTATCAGCATCACTCCTCAGATGTCCTGGCTT
CGCCTCAGATGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

```
>RC223036 representing NM_001934
Red=Cloning site Green=Tags(s)

MKLSVLPPRSLLAPYTVLCCPPDSEKPRLSPEPSERRPQAPAKKLRKPRTIYSSLQLQHLNQRFQHTQYL
ALPERAQLAAQLGLTQTQVKIWFQNKRSKYKKLLKQNSGGQEGDFPGRTFSVSPCSPPLPSLWDLPKAGT
LPTSGYGNSFGAWYQHHSSDVLASPQMM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Restriction Sites: SgfI-MluI

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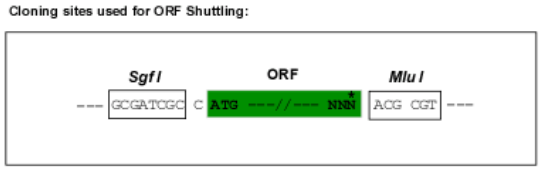
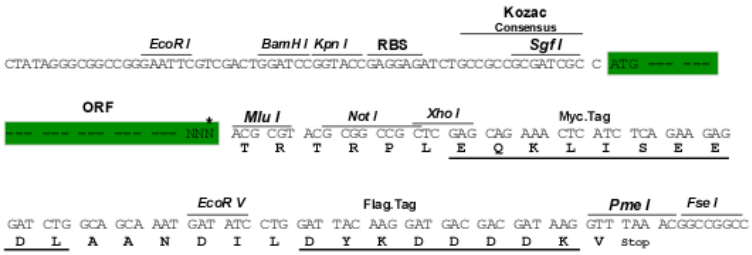
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN:	NM_001934
ORF Size:	504 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001934.3
RefSeq Size:	1405 bp
RefSeq ORF:	507 bp
Locus ID:	1748

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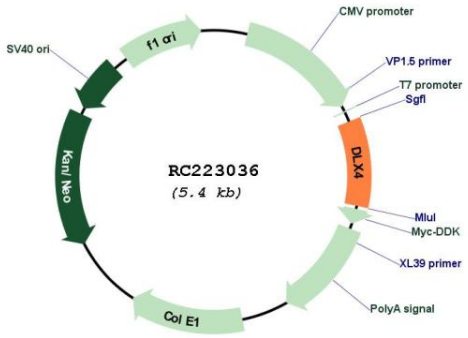
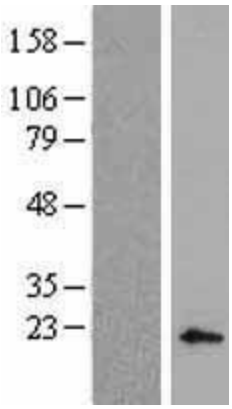
UniProt ID:	Q92988
Cytogenetics:	17q21.33
Domains:	homeobox
Protein Families:	Transcription Factors
MW:	18.7 kDa
Gene Summary:	Many vertebrate homeo box-containing genes have been identified on the basis of their sequence similarity with Drosophila developmental genes. Members of the Dlx gene family 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]

Product images:



Circular map for RC223036



Western blot validation of overexpression lysate (Cat# [LY419636]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223036 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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