

Product datasheet for **RG223036**

DLX4 (NM_001934) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DLX4 (NM_001934) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DLX4
Synonyms: BP1; DLX7; DLX8; DLX9; OFC15
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223036 representing NM_001934
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAACTGTCCGTCCTACCCCTCGCTCCCTCGCCCCCTACACCGTGTGTGCTGCCACCAGACT
 CGGAGAAGCCGCGGCTGTCCCGGAACCCTCCGAGCGGCGCCCTCAGGCCCGCCAAAAAGCTCCGCAA
 GCCGAGGACCATCTACTCCAGCTGCAGCTGCAGCACCTAAACCAGCGTTCCAGCACACGCAGTACCTG
 GCGCTGCCGAGAGGGCCAGCTGGCAGCGCAGCTCGGCCTACCCAGACCCAGGTAAGATCTGGTTTC
 AGAACAAACGCTCCAAGTATAAGAAGCTCCTGAAGCAGAATTCTGGGGGGCAGGAAGGGGACTTCCCTGG
 GAGGACCTTCTGTGTCTCCCTGCTCCCCACCCCTCCCTCCCTCTGGGATCTACCCAAGCAGGGACC
 CTGCCACCAGTGCTATGGCAACAGCTTTGGAGCCTGGTATCAGCATCACTCCTCAGATGTCCTGGCTT
 CGCCTCAGATGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223036 representing NM_001934
 Red=Cloning site Green=Tags(s)

MKLSVLPFRSLLAPYTVLCCPPDSEKPRLSPEPSERRPQAPAKKLRKPRTIYSSLQLQHLNQRQHTQYL
 ALPERAQLAAQLGLTQTQVKIWFQNKRSKYKLLKQNSGGQEGDFPGRTFVSPSPPLPSLWDLPKAGT
 LPTSGYGNFSAWYQHSSDVLASPM

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


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.

RefSeq: [NM_001934.3](#)

RefSeq Size: 1405 bp

RefSeq ORF: 507 bp

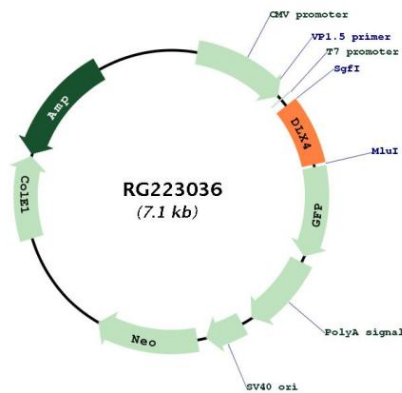
Locus ID: 1748

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]

Product images:



Circular map for RG223036