

## Product datasheet for **RG205795**

### DLX3 (NM\_005220) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DLX3 (NM_005220) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DLX3
Synonyms:	AI4; TDO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205795 representing NM_005220 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAGTGGCTCCTTCGATCGCAAGCTCAGCAGCATCCTCACCGACATCTCCAGCTCCCTTAGCTGCCATG  
CGGGCTCCAAGGACTCGCTACCCTGCCCGAGTCTTGTGCACTGACCTGGGCTACTACAGCGCTCCCCA  
GCACGATTACTACTCGGGCCAGCCCTATGGCCAGACGGTGAACCCCTACACCTACCACCACCAATTCAAT  
CTCAATGGGCTTGCAGGCAGGGCGCTTACTCGCCCAAGTCGGAATATACCTACGGAGCCTCCTACCGGC  
AATACGGGGCGTATCGGGAGCAGCCGCTGCCAGCCAGGACCCAGTGTGCGTGAAGGAGGAGCCGGAAGC  
AGAGGTGCGCATGGTGAATGGGAAGCCCAAGAAGTCCGAAAGCCGCGTACAATCTACTCCAGCTACCAG  
CTGGCCGCCCTGCAGCGCCGCTTCCAGAAGGCCAGTACCTGGCGCTGCCCGAGCGCGCCGAGCTGGCCG  
CGCAGCTGGGCCTCACGCAGACACAGGTGAAAATCTGGTTCAGAACCGCCGTTCCAAGTTCAAGAACT  
CTACAAGAACGGGGAGGTGCCGCTGGAGCACAGTCCCAATAACAGTGATTCCATGGCCTGCAACTCACCA  
CCATCACCCGCCCTCTGGGACACCTCTTCCCACTCCACTCCGGCCCTGCCCGCAGTCACTGCCCGC  
CGCTCCCATACAGTGCCTCCCCAGTACCTGGACGACCCCACTCCTGGTATCACGCACAGAACCT  
GAGTGGACCCCACTTACAGCAGCAGCCGCTCAGCCAGCCACCTGCACCATGCCTCTCCCGGGCCCCCG  
CCCAACCTGGGGCTGTGTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205795 representing NM\_005220  
 Red=Cloning site Green=Tags(s)

MSGSFDRKLLSSILTDISSLSCHAGSKDSPTLPESVTDLGYYSAPQHDYYSGQPYGQTVNPTYHHQFN  
 LNLAGTGAYSPKSEYTYGASYRQYGAYREQPLPAQDPVSVKEEPEAEVRMVNGKPKKVRKPRTIYSSYQ  
 LAALQRRFQKAQYLALPERAELAAQLGLTQTQVKIWFQNRRSKFKKLYKNGEVPLEHSPNNSDSMACNSP  
 PSPALWDTSSHSTPAPARSQLPPPLPYSASPSYLDPTNSWYHAQNLSGPHLQQQPPQPATLHHASPGPP  
 PNP GAVY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005220

**ORF Size:** 861 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\\_005220.1](#)

**RefSeq Size:** 2613 bp

**RefSeq ORF:** 864 bp

**Locus ID:** 1747

**UniProt ID:** [O60479](#)

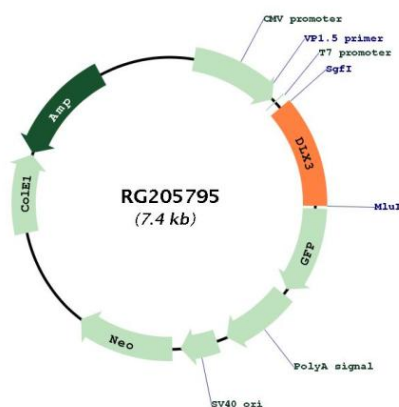
**Cytogenetics:** 17q21.33

**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]

### Product images:



Circular map for RG205795

