

Product datasheet for **RG207545**

DLX2 (NM_004405) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLX2 (NM_004405) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DLX2
Synonyms:	TES-1; TES1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207545 representing NM_004405 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGGAGTCTTTGACAGTCTAGTGGCTGATATGCACTCGACCCAGATCGCCGCCTCCAGCACGTACC
ACCAGCACCAGCAGCCCCGAGCGGGCGGGCGGCCCGCCGGGTGGCAACAGCAGCAGCAGCAGCAGCCT
CCACAAGCCCAGGAGTCGCCACCCCTCCGGTGTCCACCGCCACCGACAGCAGCTACTACCAACCAG
CAGCACCCGGCGGGCGGGCGGGCGGGGGCTCGCCCTACGCGCACATGGGTTCTACCAGTACCAAG
CCAGCGGCCTCAACAACGTCCCTTACTCGCCAAGAGCAGCTATGACCTGGGCTACACCGCCGCCTACAC
CTCTACGCTCCCTATGGAACAGTTCTGTCGCCAGCCAACAACGAGCCTGAGAAGGAGGACCTTGAGCCT
GAAATTCGGATAGTGAACGGGAAGCCAAAGAAAGTCCGGAAACCCCGCACCATCTACTCCAGTTTCCAGC
TGGCGGCTCTTACAGCGCGTTCCTCAAAAAGACTCAATACTTGGCCTTGGCGGAGCGAGCCGAGCTGGCGGC
CTCTCTGGGCCTCACCCAGACTCAGGTCAAATCTGGTTCCAGAACCAGCCGGTCCAAGTTCAAGAAGATG
TGGAAAAGTGGTGAATCCCCTCGGAGCAGCACCTGGGGCCAGCGCTTCTCCACCTTGTGCTTCGCGGC
CAGTCTCAGCGCCGGCCTCCTGGACTTTGGTGTGCCGACGGATGGCGGGCGGGTGGTCCGGGCAG
TGGCGGCAGCGGGCGGGCAGCTCGGGCTCCAGCCGAGCAGCGCGGCCCTCGGCTTTTCTGGGCAACTAC
CCCTGGTACCACCAGACCTCGGGATCCGCCTCACACCTGCAGGCCACGGCGCCGCTGCTGCACCCCACTC
AGACCCCGCAGCCGCATCACCCACCACCATCACGGCGGGGGCGCCCGGTGAGCGGGGGACGAT
TTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207545 representing NM_004405
 Red=Cloning site Green=Tags(s)

MTGVFDSLVLADMHSTQIAASSTYHQHQPPSGGGAGPGGNSSSSSSSLHKPQESPTLPVSTATDSSYYTNQ
 QHPAGGGGGGGSPYAHMGSYQYQASGLNNVPYSAKSSYDLGYTAAYSYAPYGTSSSPANNEPEKEDLEP
 EIRIVNGKPKKVRKPRTIYSSFQLAALQRRFQKTQYLALPERAELAASLGLTQTQVKIWFQNRRSKFKKM
 WKSGEIPSEQHPGASAPPCASPVSAPASWDFGVPQRMAGGGGPGSGGGAGSSGSSPSSAASAFLGNY
 PWYHQTSGSASHLQATAPLLHPTQTPQHSHHHHHHHGGGGAPVSAQTIF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004405

ORF Size: 984 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_004405.4](#)

RefSeq Size: 2091 bp

RefSeq ORF: 987 bp

Locus ID: 1746

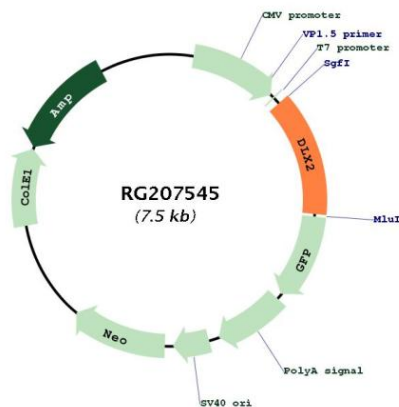
UniProt ID: [Q07687](#)

Cytogenetics: 2q31.1

Protein Families: ES Cell Differentiation/IPS, Stem cell relevant signaling - TGFb/BMP signaling pathway, 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. This gene is located in a tail-to-tail configuration with another member of the gene family on the long arm of chromosome 2. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207545