

Product datasheet for **MG226753**

Dlx5 (NM_198854) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dlx5 (NM_198854) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dlx5
Synonyms: AI385752
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226753 representing NM_198854
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAGGAGTGTGGACAGAAGAGTCCCAAGCATCCGATCCGGCGACTCCAAGCTCCGTTCCCGACGT
 CCGCCGCATGCACCACCCGTCTCAGGAATCGCCAACCTTGCCCGAGTCTCGCCACCGATTCTGACTA
 CTACAGTCCCGGGGGCCGCCCGCACGGCTACTGCTCTCTACCTCTGCTTCTTATGGCAAAGCGCTC
 AACCCCTACCAGTACCAGTACCACGGCGTGAACGGCTCCGCAGCCGGCTACCCGGCCAAGGCTTATGCCG
 ACTACGGCTACGCCAGCCCTACCACAGTACGGCGGCGCTACAACCGGTCCCGAGTGCCACCAGCCA
 GCCAGCTTTCAGCTGGCCGCTTTACAGAGAAGGTTTCAGAAGACTCAGTACCTCGCCCTGCCAGAACGCG
 CGGAGTTGGCCGCTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226753 representing NM_198854
 Red=Cloning site Green=Tags(s)

MTGVFDRRVPSIRSGDFQAPFPTSAAMHPSQESPTLPESATDSDYSPAGAAPHGYCSPTSASYGKAL
 NPYQYQYHGVNGSAAGYPAKAYADYGYASPYHQYGGAYNRVPSATSQPAFSWPLYREGFRRLSTSPCQNA
 RSWPPL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_198854

ORF Size: 438 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_198854.2](#), [NP_942151.1](#)

RefSeq Size: 1349 bp

RefSeq ORF: 441 bp

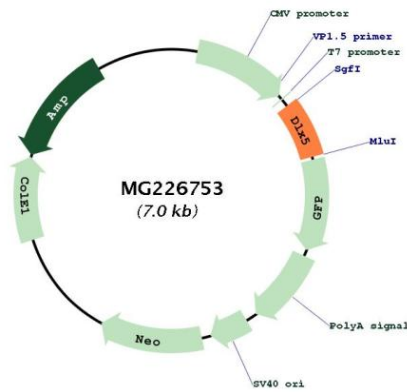
Locus ID: 13395

UniProt ID: [P70396](#)

Cytogenetics: 6 2.83 cM

Gene Summary: Transcriptional factor involved in bone development. Acts as an immediate early BMP-responsive transcriptional activator essential for osteoblast differentiation. Stimulates ALPL promoter activity in a RUNX2-independent manner during osteoblast differentiation. Stimulates SP7 promoter activity during osteoblast differentiation. Promotes cell proliferation by up-regulating MYC promoter activity. Involved as a positive regulator of both chondrogenesis and chondrocyte hypertrophy in the endochondral skeleton. Binds to the homeodomain-response element of the ALPL and SP7 promoter. Binds to the MYC promoter. Requires the 5'-TAATTA-3' consensus sequence for DNA-binding.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226753