

## Product datasheet for **MR226753**

### **Dlx5 (NM\_198854) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dlx5 (NM\_198854) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dlx5  
**Synonyms:** AI385752  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR226753 representing NM\_198854  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACAGGAGTGTGGACAGAAGAGTCCCAAGCATCCGATCCGGCGACTCCAAGCTCCGTTCCCGACGT  
 CCGCCGCATGCACCACCCGTCTCAGGAATCGCCAACCTTGCCTCGGACCGATTCTGACTA  
 CTACAGTCCCGGGGGCCGCCCGCACGGCTACTGCTCTCTACCTCTGCTTCTATGGCAAAGCGCTC  
 AACCCCTACCAGTACCAGTACCACGGCGTGAACGGCTCCGACCGGCTACCCGGCAAGGCTTATGCCG  
 ACTACGGCTACGCCAGCCCTACCACAGTACGGCGGCGCTACAACCGGTCCCGAGTCCACAGCCA  
 GCCAGCTTTCAGCTGGCCGCTTACAGAGAAGGTTTCAGAAGACTCAGTACCTCGCCCTGCCAGAAGCGC  
 CGGAGTTGGCCGCTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226753 representing NM\_198854  
 Red=Cloning site Green=Tags(s)

MTGVFDRRVPISIRSGDFQAPFPTSAAMHPSQESPTLPESATDSDYSPAGAAPHGYCSPTSASYGKAL  
 NPYYQYHGVNGSAAGYPAKAYADYGYASPHYQYGAYNRVPSATSQPAFSWPLYREGFRRLSTSPCQNA  
 RSWPPL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

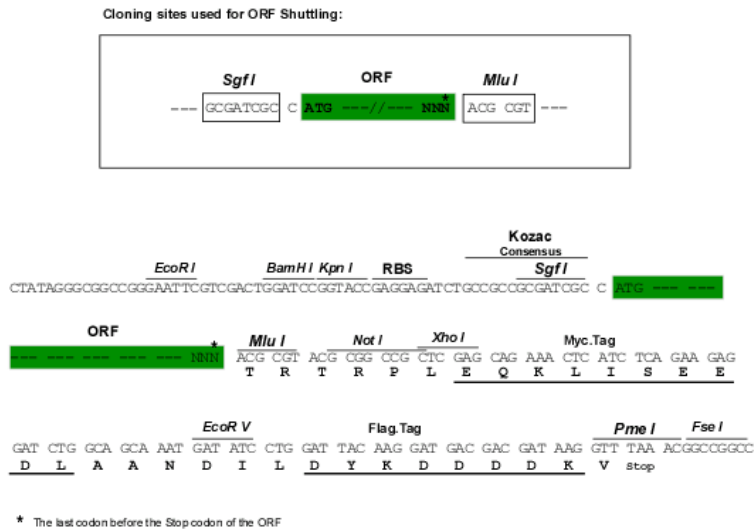
**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9035\\_f08.zip](https://cdn.origene.com/chromatograms/mm9035_f08.zip)



[View online >](#)

Restriction Sites: SgfI-MluI

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.

RefSeq: [NM\\_198854.2](#), [NP\\_942151.1](#)

RefSeq Size: 1349 bp

RefSeq ORF: 441 bp

Locus ID: 13395

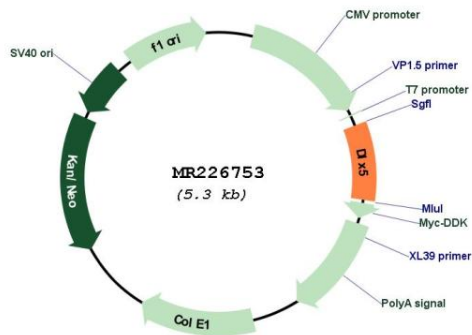
UniProt ID: [P70396](#)

Cytogenetics: 6 2.83 cM

MW: 16.3 kDa

**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 MR226753