

Product datasheet for MR226751

Dlx5 (NM_010056) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Dlx5 (NM_010056) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Dlx5
 Synonyms: A1385752
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR226751 representing NM_010056
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAGGAGTGTGGACAGAAGAGTCCCAAGCATCCGATCCGGCGACTTCCAAGCTCCGTTCCCGACGT
 CCGCCGCATGCACCACCCGTCTCAGGAATCGCCAACCTTGCCCGAGTCTCGGCCACCGATTCTGACTA
 CTACAGTCCCGCGGGGGCCGCCCGCACGGCTACTGCTCTCTACCTCTGCTTCTTATGGCAAAGCGCTC
 AACCCCTACCAGTACCAGTACCACGGCGTGAACGGCTCCGCAGCCGGCTACCCGGCAAGGCTTATGCCG
 ACTACGGCTACGCCAGCCCTACCACAGTACGGCGGCGCTACAACCGGTCCCGAGTCCACACAGCCA
 GCCAGAGAAAGAAGTGGCGGAGCCAGAGGTGAGGATGGTGAATGGTAAACCAAAGAAAGTTTCGTAACCC
 AGGACTATTTATCCAGCTTTCAGCTGGCCGCTTTACAGAGAAGTTTCAGAAGACTCAGTACCTCGCCC
 TGCCAGAACGCGCGGAGTTGGCCGCTCTCTAGGACTGACGCAAACACAGGTGAAAATCTGGTTTCAGAA
 CAAAAGATCCAAGATCAAGAAGATCATGAAAAACGGGGAGATGCCCCCGGAGCACAGTCCCGACTCCAGC
 GACCCTATGGCGTGAATCGCCACAGTACCAGCGGTGTGGGAGCCCCAGGGCTCATCCCGCTCTCTCA
 GCCACCACCTCATGCCACCCCTCGACCTCAACAGTCCCCCGGTCCAGTACCTGGAGAATCGGC
 TTCCTGGTACCAAGCGCAGCCAGCTCAATCAATCCACCTGCCACCGCGGCTCCTTGACGACCCCG
 CTGGCACTGGCCTCCGGGACGCTTAT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR226751 representing NM_010056
Red=Cloning site Green=Tags(s)

MTGVFDRRVPVSIIRSGDFQAPFPPTSAAHHHPSQESPTLPESATDSDYSPAGAAPHGYCSPTSASYGKAL
 NPYQYQYHGVNGSAAGYPAKAYADYGYASPHYQYGGAYNRVPSATSQPEKEVAEPEVRMVNGKPKKVRKP
 RTIYSSFQLAALQRRFQKTQYLALPERAELAASLGLTQTQVKIWFQNKRSKIKKIMKNGEMPPEHSPSSS
 DPMACNSPQSPAVWEPQGSRSLSHHPHAHPPTSNOQSPASSYLENSASWYPSAASSINSHLPPPGLQHP
 LALASGTLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3437_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010056

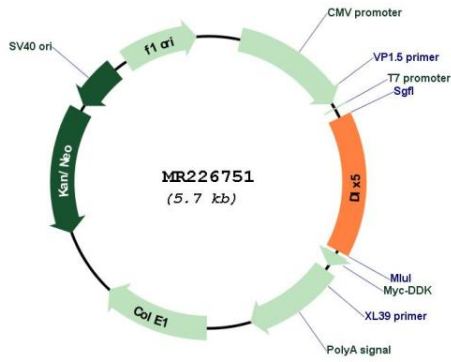
ORF Size: 870 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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_010056.3
RefSeq Size:	1410 bp
RefSeq ORF:	870 bp
Locus ID:	13395
UniProt ID:	P70396
Cytogenetics:	6 2.83 cM
MW:	31.4 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 MR226751