

Product datasheet for **MC208397**

Dlx5 (NM_198854) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlx5 (NM_198854) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dlx5
Synonyms:	A1385752
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC208397 representing NM_198854 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACAGGAGTGTGGACAGAAGAGTCCCAAGCATCCGATCCGGCGACTCCAAGCTCCGTTCCCGACGT
CCGCCGCATGCACCACCGTCTCAGGAATCGCCAACCTTGCCTGAGTCCCGCCACCGATTCTGACTA
CTACAGTCCCGCGGGGGCGCCCGCACGGCTACTGCTCTCTACCTCTGCTTCTATGGCAAAGCGCTC
AACCCCTACCACTACCAGTACCACGGCGTGAACGGCTCCGAGCCGGCTACCCGGCAAGGCTTATGCCG
ACTACGGTACGCCAGCCCTACCACAGTACGGCGGCGCTACAACCGGTCCCGAGTGCCACCAGCCA
GCCAGCTTTCAGCTGGCCGCTTACAGAGAAGGTTTCAGAAGACTCAGTACCTCGCCCTGCCAGAACGCG
CGGAGTTGGCCGCTCTC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_198854
Insert Size:	441 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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:	<u>NM_198854.2</u> , <u>NP_942151.1</u>
RefSeq Size:	1328 bp
RefSeq ORF:	441 bp
Locus ID:	13395
UniProt ID:	<u>P70396</u>
Cytogenetics:	6 2.83 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the central coding region, resulting in a frameshift and an early stop codon, compared to variant 1. It encodes isoform 2, which is shorter and has a distinct C-terminus, compared to isoform 1.</p>