

Product datasheet for RC202525

DLX5 (NM_005221) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLX5 (NM_005221) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DLX5
Synonyms:	SHFM1; SHFM1D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202525 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACAGGAGTGTGGACAGAAGGGTCCCCAGCATCCGATCCGGCGACTTCCAAGCTCCGTTCCAGACGT
CCGCAGCTATGCACCATCCGTCTCAGGAATCGCCAACCTTGCCCGAGTCTTCAGCTACCGATTCTGACTA
CTACAGCCCTACGGGGGAGCCCCGCACGGCTACTGCTCTCTACCTCGGCTTCTATGGCAAAGCTCTC
AACCCCTACCAGTATCAGTATCACGGCGTGAACGGCTCCGCCGGGAGCTACCCAGCCAAAGCTTATGCCG
ACTATAGCTACGCTAGCTCCTACCACAGTACGGCGGCGCTACAACCGGTCCCAAGCGCCACCAACCA
GCCAGAGAAAGAAGTGACCGAGCCCGAGGTGAGAATGGTGAATGGCAAACCAAGAAAGTTTCGTAACCC
AGGACTATTTATCCAGCTTTCAGCTGGCCGATTACAGAGAAGTTTCAGAAGACTCAGTACCTCGCCT
TGCCGGAACGCGCCGAGCTGGCCGCTCGCTGGGATTGACACAAACACAGGTGAAAATCTGGTTTCAGAA
CAAAAGATCCAAGATCAAGAAGATCATGAAAAACGGGGAGATGCCCCCGGAGCACAGTCCAGCTCCAGC
GACCAATGGCGTGAACCTCGCCGAGTCTCCAGCGGTGTGGGAGCCCCAGGGCTCGTCCCGCTCGCTCA
GCCACCACCTCATGCCACCTCCGACCTCAACCAGTCCCAGCGTCCAGTACCTGGAGAACTCTGC
ATCCTGGTACACAAGTGACCCAGCTCAATCAATCCCACCTGCCGCCGGGCTCCTTACAGCACCCG
CTGGCGCTGGCCTCCGGGACACTCTAT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC202525 protein sequence
Red=Cloning site Green=Tags(s)

MTGVFDRRVPVSIIRSGDFQAPFQTSAAHHHPSQESPTLPESATDSDYYSPTGGAPHGYCSPTSASYGKAL
 NPYQYQYHGVNGSAGSYPAKAYADYSYASSYHQYGGAYNRVPSATNQPEKEVTEPEVRMVNGKPKKVRKP
 RTIYSSFQLAALQRRFQKTQYLALPERAELAASLGLTQTQVKIWFQNKRSKIKKIMKNGEMPPEHSPSSS
 DPMACNSPQSPAVWEPQGSRSLSHHPHAHPPTSNOQPASSYLENSASWYTSAASSINSHLPPPGLQHP
 LALASGTLY

TRTRPLEQKLISEEDLANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6076_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005221

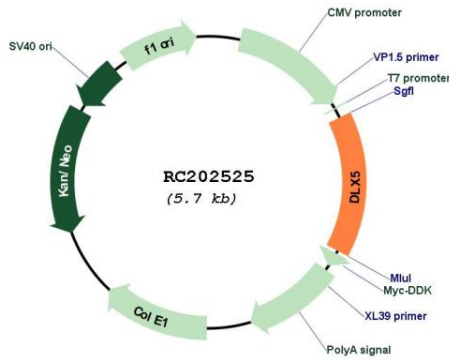
ORF Size: 867 bp

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.

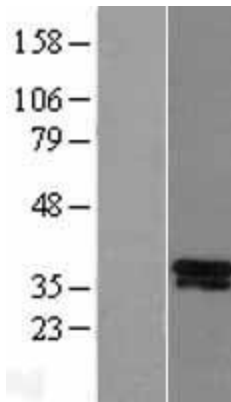
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_005221.6
RefSeq Size:	1424 bp
RefSeq ORF:	870 bp
Locus ID:	1749
UniProt ID:	P56178
Cytogenetics:	7q21.3
Domains:	homeobox
Protein Families:	ES Cell Differentiation/IPS, Transcription Factors
MW:	31.5 kDa
Gene Summary:	This gene encodes a member of a homeobox transcription factor gene family similar to the <i>Drosophila</i> distal-less gene. The encoded protein may play a role in bone development and fracture healing. Mutation in this gene, which is located in a tail-to-tail configuration with another member of the family on the long arm of chromosome 7, may be associated with split-hand/split-foot malformation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202525



Western blot validation of overexpression lysate (Cat# [LY401599]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202525 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).