

Product datasheet for MR204899

Dlx2 (NM_010054) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlx2 (NM_010054) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dlx2
Synonyms:	AW121999; Dlx-2; Tes-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204899 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACTGGAGTCTTTGACAGTCTGGTGGCTGATATGCACTCGACCCAGATCACCGCCTCCAGCACGTACC
ACCAGCACAGCAGCCCCGAGCGGTGCGGGCGCCGGCCCTGGCGGCAACAGCAACAGCAGCAGCAGCAA
CAGCAGCCTGCACAAGCCCCAGGAGTCGCCAACCTCCCGGTGCCACGGCTACGGACAGCAGCTACTAC
ACCAACCAGCAGCACCCGGCGGGCGGGCGGGGGGGCCCTCGCCCTACGCGCACATGGGCTCCTACC
AGTACCACGCCAGCGGCCTCAACAATGTCTCCTACTCCGCCAAAAGCAGCTACGACCTGGGCTACACCGC
CGCGTACACCTCCTACGGCCCTACGGCACCAGTTCGTCTCCGGTCAACAACGAGCCGGACAAGGAAGAC
CTTGAGCCTGAAATCCGAATAGTGAACGGGAAGCCAAAGAAAGTCCGGAAACCACGCACCATCTACTCCA
GTTTCCAGCTGGCGGCCCTTCAACGACGCTTCCAGAAGACCCAGTATCTGGCCCTGCCAGAGCGAGCCGA
GCTGGCGGCGTCCCTGGGCCTCACCCAACTCAGGTCAAATCTGGTCCAGAACCGCCGATCCAAGTTC
AAGAAGATGTGGAAAAGCGGCGAGATACCCACCGAGCAGCACCCCTGGAGCCAGCGCTTCTCCTCTGTG
CCTCCCCGCGGTCTCGGCGCCAGCATCCTGGGACTTCGGCGCCCGCAGCGGATGGCTGGCGGCGGCC
GGGCAGCGGAGGCGGCGGTGCGGGCAGCTCTGGCTCCAGCCCAGCAGCGCCCTCGGCCTTCTGGGA
AACTACCCGTGGTACCACAGGCTTCGGGCTCCGCTTACACCTGCAGGCCACAGCGCCACTTCTGCATC
CTTCGCAGACTCCGACGGCCACCATCACCAATCACCAACCACGCAGGCGGGGGCGCCCGGTGAG
CGCGGGGACGATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204899 protein sequence
Red=Cloning site Green=Tags(s)

MTGVFDSLVDAMHSTQITASSTYHQHQPPSGAGAGPGGNSNSSSSNSSLHKPQESPTLPVSTATDSSYY
 TNQQHPAGGGGGASPYAHMGSYQYHASGLNNVSYSYSAKSSYDLGYTAAYTSYAPYGTSSSPVNNPEPKED
 LEPEIRIVNGKPKVRKPRTIYSSFQLAALQRRFQKTQYLALPERAELAASLGLTQTQVKIWFQNRRSKF
 KKMWKSGEIPTEQHPGASAPPCASPPVSAPASWDFGAPQRMAGGGPGSGGGGAGSSGSSPSSAASAFGLG
 NYPWYHQASGSASHLQATAPLLHPSQTPQAHHHHHHHHHHAGGGAPVSAGTIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010054

ORF Size: 999 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_010054.2](#), [NP_034184.1](#)

RefSeq Size: 2492 bp

RefSeq ORF: 999 bp

Locus ID: 13392

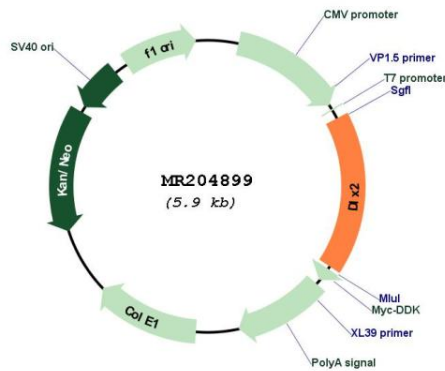
UniProt ID: [P40764](#)

Cytogenetics: 2 42.65 cM

MW: 34.7 kDa

Gene Summary: Acts as a transcriptional activator (PubMed:21875655). Plays a role in terminal differentiation of interneurons, such as amacrine and bipolar cells in the developing retina (PubMed:21875655). Likely to play a regulatory role in the development of the ventral forebrain (PubMed:1678612). May play a role in craniofacial patterning and morphogenesis (PubMed:1678612).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204899