

Product datasheet for **MG204899**

Dlx2 (NM_010054) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dlx2 (NM_010054) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dlx2
Synonyms: AW121999; Dlx-2; Tes-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204899 representing NM_010054
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGGAGTCTTTGACAGTCTGGTGGCTGATATGCACTCGACCCAGATCACCGCCTCCAGCACGTACC
ACCAGCACAGCAGCCCCGAGCGGTGCGGGCGCCGGCCTGGCGGCAACAGCAACAGCAGCAGCAGCAA
CAGCAGCCTGCACAAGCCCCAGGAGTCGCCAACCTCCCGGTGCCACGGCTACGGACAGCAGCTACTAC
ACCAACCAGCAGCACCCGGCGGGCGCGGGCGGGGGGCTCGCCCTACGCGCACATGGGCTCCTACC
AGTACCACGCCAGCGGCCTCAACAATGTCTCCTACTCCGCAAAAGCAGCTACGACCTGGGCTACACCGC
CGGTACACCTCCTACGCGCCCTACGGCACAGTTCGTCTCCGGTCAACAACGAGCCGGACAAGGAAGAC
CTTGAGCCTGAAATCCGAATAGTGAACGGGAAGCCAAAGAAAGTCCGGAAACACGCACCATCTACTCCA
GTTTCCAGCTGGCGGCCCTTCAACGACGCTTCCAGAAGACCCAGTATCTGGCCCTGCCAGAGCGAGCCGA
GCTGGCGGCGTCCCTGGGCTCACCCAACTCAGGTCAAATCTGGTTCCAGAACCGCCGATCCAAGTTC
AAGAAGATGTGAAAAGCGGCGAGATACCCACCGAGCAGCACCTGGAGCCAGCGCTTCTCCTCCTGTG
CCTCCCCCGCGTCTCGGCGCCAGCATCCTGGGACTTCGGCGCGCCGAGCGGATGGCTGGCGGCGGCC
GGCAGCGGAGGGCGGCGGTGCGGGCAGCTCTGGCTCCAGCCGAGCAGCGCCCTCGGCCTTCTGGGA
AACTACCGTGGTACCACAGGCTTCGGGCTCCGCTTACACCTGCAGGCCACAGCGCCACTTCTGCATC
CTTCGAGACTCCGAGCGCACCATCACCCATCACCCACCCACGCAGGCGGGGGCGCCCGGTGAG
CGCGGGGACGATTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204899 representing NM_010054
Red=Cloning site Green=Tags(s)

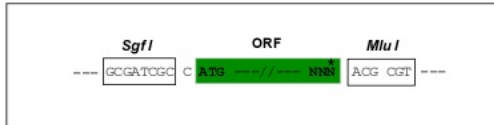
MTGVFDSLVLADMHSTQITASSTYHQHQPPSGAGAGPGGNSNSSSSNSSLHKPQESPTLPVSTATDSSYY
 TNQQHPAGGGGGASPYAHMGSYQYHASGLNNVSYSAKSSYDLGYTAAYTSYAPYGTSSSPVNNPEPKED
 LEPEIRIVNGKPKKVRKPRTIYSSFQLAALQRRFQKTQYLALPERAELAASLGLTQTQVKIWFQNRRSKF
 KKMWKSGEIPTEQHPGASAPPCASPPVAPASWDFGAPQRMAGGGPGSGGGGAGSSGSSPSSAASAFGLG
 NYPWYHQASGSASHLQATAPLLHPSQTPQAHHHHHHHHHAGGGAPVSAGTIF

TRTRPLE - GFP Tag - V

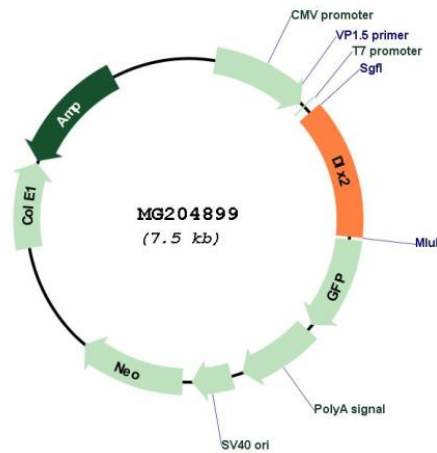
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_010054

ORF Size: 996 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:	<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_010054.2 , NP_034184.1
RefSeq Size:	2457 bp
RefSeq ORF:	999 bp
Locus ID:	13392
UniProt ID:	P40764
Cytogenetics:	2 42.65 cM
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]