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Product datasheet for MR206225

Dxo (NM_033613) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dxo (NM_033613) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dxo
Synonyms:	Dom3z; NG6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206225 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAACCCAGAGGGACTAAGAGAAAAGCGGAGAAGACAGAGGTGGAAAAGCCTTTGAACAAACTCCCCC
GGGCAGTCCCTTCACTGCGGACACAGCCCTCTCTGTACTCGGGACCCTTCCCGTTCTACCGGCGTCCATC
CGAACTGGGCTGCTTCTCCCTGGACGCACAACGCCAGTACCATGGAGATGCCCGAGCCCTCCGCTACTAC
AGCCCCCCTCCCATCAACGGCCCAGGCCCGGACTTTGACCTCAGAGATGGATACCCTGACCGATACCAGC
CCCGGGGACGAGGAAGTCCAAGAGAGGTTGGACCATTTGCTGCGCTGGGTCCTGGAACACCGGAACCAGCT
GGAGGGGGGTCCCGGCTGGCTGGCAGGGGCCACGGTGACATGGAGAGGGCACCTGACAAAATTGCTGACC
ACGCCGTATGAGCGGCAGGAGGGCTGGCAGCTGGCAGCCTCCCGGTTCCAAGGGACACTGTACCTAAGTG
AGGTGGAGACCCCGGCTGCTCGGGCCCAGAGGCTTGCACGGCCACCCCTCCTCCGGGAGCTCATGTACAT
GGGCTACAAATTTGAGCAGTACATGTGCGCAGACAAACCCGGAGGCTCCCCAGACCCCTCTGGGGAAGTT
AACACCAACGTGGCCTACTGCTCTGTGCTACGCAGCCGCCTGGGAAACCACCCTCTCCTGTTCTCCGGGG
AGGTAGACTGCCTGAACCCCCAGGCTCCTTGCACACAGCCTCCCTCCTGCTACGTGGAGCTCAAGACATC
CAAGGAGATGCACAGCCCTGGCCAGTGGAGGAGCTTTTACAGACACAAGTTGCTGAAATGGTGGGCTCAG
TCGTTCCTCCCGGGGGTCCCACATGTTGTTGCCGGCTTCCGGAACCCAGAAGGTTTCGTCTGTTCCTTAA
AGACCTTTCCTACCATGGAGATGTTTGAAAATGTCAGGAATGACCGAGAAGGCTGGAATCCCTCTGTGTG
CATGAACTTCTGTGCTGCCTTCCTTAGCTTTGCCCAGAGCACAGTAGTCCAGGACGATCCCAGGCTTGTC
CACCTCTTCTCCTGGGAACCTGGTGGCCCTGTCACTGTGTCTGTCCATCGTGACGCACCCTATGCCTTCC
TGCCCTCATGGTATGTGGAGACTATGACCCAAGACCTCCCACCACTCTCAAAGACTCCCTCTCCCAAGGA
C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

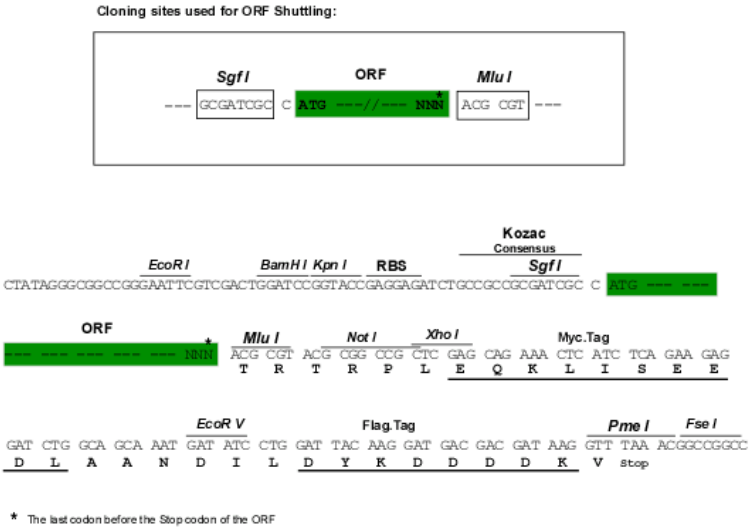
>MR206225 protein sequence
Red=Cloning site Green=Tags(s)

MEPRGTKRKAEKTEVEKPLNKLPRAVPSLRTQPSLYSGPFPFYRRPSELGCFSLDAQRQYHGDARALRYY
SPPPINGPGPDFDLRDGYPDRYQPRDEEVQERLDHLLRWVLEHRNQLEGGPGWLAGATVTWRGHLTKLLT
TPYERQEGWQLAASRFQGTLYLSEVETPAARAQRLARPPLLRELMYMGYKFEQYMCADKPGGSPDPSGEV
NTNVAYCSVLRSRLGNHPLLFSGEVDCLNPQAPCTQPPSCYVELKTSKEMHSPGQWRSFYRHKLLKWWAQ
SFLPGVPHVVAGFRNPEGFVCSLKTFPTMEMFENVRNDREGWNPSVCMNFCAAFLSFAQSTVVQDDPRLV
HLFSWEPGGPVTVSVHRDAPYAFLPSWYVETMTQDLPPLSKTPSPKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033613

ORF Size: 1194 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_033613.1, NP_291091.1

RefSeq Size: 1472 bp

RefSeq ORF: 1194 bp

Locus ID: 112403

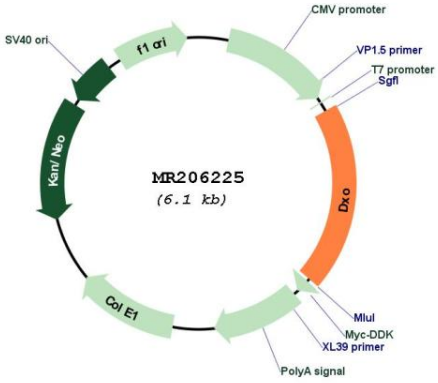
UniProt ID: O70348

Cytogenetics: 17 B1

MW: 45.3 kDa

Gene Summary: Ribonuclease that specifically degrades pre-mRNAs with a defective 5' end cap and is part of a pre-mRNA capping quality control. Has decapping, pyrophosphohydrolase and 5'-3' exonuclease activities. Has decapping activity toward incomplete 5' end cap mRNAs such as unmethylated 5' end-capped RNA to release GpppN and 5' end monophosphate RNA. The 5' end monophosphate RNA is then degraded by the 5'-3' exoribonuclease activity, enabling this enzyme to decap and degrade incompletely capped mRNAs. Also possesses RNA 5'-pyrophosphohydrolase activity by hydrolyzing the 5' end triphosphate to release pyrophosphates.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206225