

Product datasheet for RN215319

Dxo (NM_212497) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dxo (NM_212497) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dxo
Synonyms:	Dom3z
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215319 representing NM_212497 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCCAGAGGGACCAAGAGAAAAGCTGAGAAGACAGAGGTGGCAAAGACTTGAACAAATTACCGC
 GGTGCTACCTCACTGCGCACACAGCCTTCTGTACTCCGGACCCTTCCCTTTCTACCGGCGCCCTTC
 CGAACTGGGCTGCTTCTCCCTGGACGCACAGCGCCAGTACCACGGAGATGCCGAGCCCTCCGCTACTAC
 AGCCACCAACCCATCAACGGCCAGGCCAGACTTTGACCTCAGAGATGGATACCCTGACCGATACCAGC
 CCCGGGATGAGGAGTCCGAGAGAGTTGGACATTTGCTGCGCTGGGTCTGGAACACCGAAACCAGCT
 GGAGGGGGTCCAGGCTGGCTGGCAGGGGCCACAGTGACATGGCGAGGGCACCTGACAAAATTGCTGACC
 ACACCGTATGAGAGGCAAGAGGGCTGGCAGCTGGCAGCCTCCCGTTCCAAGGGACACTGTATCTAAGTG
 AGGTGGAGACCCCGGCTGCTCGGGCCAGAGGCTTGCAAGGCCCCCCCTCCTCCGGGAGCTCATGTACAT
 GGGCTACAAGTTTGAGCAGTACATGTGTGCAGACAAACCTGGAGGCTCCCGAGACCCTTCTGGGGAAGTT
 AACACCAACGTGGCCTTCTGCTCTGTGTACGCAGCCGCTGGGAACCAACCTCTCCTATTCTCCGGG
 AGGTAGACTGCCTAAACCCAGGCCCTTGACCCAGCCTCCCTCCTGCTACGTGGAGCTCAAGACGTC
 CAAGGAGATGCACAGCCCTGGCAGTGGAGGAGCTTACAGGCACAAGCTGTGAAATGGTGGGCTCAG
 TCGTTCTCCCGGGGTCCCGTATGTTGTTGCCGGCTTCCGAACCCAGAAGTTTCGTCTGTTCCCTTAA
 AGACCTTTCCTACCATGGAGATGTTTGAAAATGTCAGGAATGACCAAGAAGGCTGGAATCCCTCCGTGTG
 CATGAACCTTCTGTGCTGCCTTCTTAGCTTTGCCAGAGCACAGTCGTCAGGACGATCCAGGCTTGTC
 CACCTCTTCTCCTGGGAGCCTGGTGGCCCTGTCACTGTGTCTGTCCATCGGGATGCACCCTATGCCTTCC
 TGCCCTCCTGGTATGTGGAAGCTATGACCAAGACCTCCCGTCACTCTCAAAGACTCCCTCCCCAAGGA
 CTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_212497
Insert Size:	1194 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).
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:	<u>NM_212497.2, NP_997662.1</u>
RefSeq Size:	1397 bp
RefSeq ORF:	1194 bp
Locus ID:	361799
UniProt ID:	<u>Q6MG77</u>
Cytogenetics:	20p12
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 (By similarity).[UniProtKB/Swiss-Prot Function]