

Product datasheet for MC224259

Xdh (NM_011723) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xdh (NM_011723) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Xdh
Synonyms:	X; XO; Xor; Xox; Xox-; Xox-1; Xox1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224259 representing NM_011723 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGAGGACAACGGTAGATGAGTTGGTCTTCTTTGTGAATGGCAAAAAGGTGGTGGAGAAAAATGCAG
ACCCTGAAACAACACTTCTGGTCTACCTTAGAAGAAAGTTGGGGCTGTGCGGGACCAAGCTTGGCTGTGG
AGAAGGTGGCTGTGGGGCATGCACCGTGATGATCTCCAAGTATGACCGCCTTCAGAACAAAGATCGTTTCAT
TTTCCGTCAATGCCTGCTTGACCCCCATCTGCTCCTTGATCATGTTGCTGTGACAACTGTGGAAGGCA
TAGGAAACACCAAGAAGCTGCATCCTGTCCAGGAGAGAATTGCCAAAAGCCATGGTTCCCACTGTGGGTT
CTGTACCCTGGTATTGTCATGAGTATGTACAACTGCTCCGAAACAAGCCTGAGCCTACTGTGCGAGGAG
ATCGAGAATGCCTTCCAAGGAAACCTCTGCCGCTGTACAGGCTATAGACCCATCCTCCAGGGATTCCGGA
CCTTTGCCAAGGATGGTGGTGTGTGGAGGAAGTGAAACAACCCAACTGCTGCATGAGCCAAACAAA
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GAGCCCATCTTTCCCCAGAGTTGCTGAGGCTGAAAGACACTCCCGGAAGACGTTGCGTTTTGAAGGGG
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GGCTTGGCAGAGGAGCTGCACCTGGCCCCGACGCCCTGGTGGGATGGTGAATTCGCGGCACCTCA



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CTCGAGCTCAGCACGGAGACAGTAACGCCAAACAGCTCTTCCAGCTAGACAGCCCCGCCACTCCGGAGAA
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TGGTCCGTGAGGATCGA

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_011723

Insert Size:

4008 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: [NM_011723.3](#), [NP_035853.2](#)

RefSeq Size: 4623 bp

RefSeq ORF: 4008 bp

Locus ID: 22436

UniProt ID: [Q00519](#)

Cytogenetics: 17 45.25 cM

Gene Summary: This gene encodes a member of the xanthine dehydrogenase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The encoded protein exists as two distinct enzymatic forms, either as xanthine dehydrogenase, or as xanthine oxidase, and functions in purine degradation. Additional studies also suggest a role in adipogenesis, and a function as a structural protein in milk fat droplets in the lactating mammary gland. [provided by RefSeq, Jan 2014]