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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC224259 representing NM_011723
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGAGGACAACGGTAGATGAGTTGGTCTTCTTTGTGAATGGCAAAAAGGTGGTGGAGAAAAATGCAG
ACCCTGAAACAACACTTCTGGTCTACCTTAGAAGAAAGTTGGGGCTGTGCGGGACCAAGCTTGGCTGTGG
AGAAGGTGGCTGTGGGGCATGCACCGTGATGATCTCCAAGTATGACCGCCTTCAGAACAAGATCGTTCAT
TTTTCCGTCAATGCCTGCTTGACCCCCATCTGCTCCTTGCATCATGTTGCTGTGACAACTGTGGAAGGCA
TAGGAAACACCAAGAAGCTGCATCCTGTCCAGGAGAGAATTGCCAAAAGCCATGGTTCCCAGTGTGGGTT
CTGTACCCCTGGTATTGTCATGAGTATGTACACACTGCTCCGAAACAAGCCTGAGCCTACTGTCGAGGAG
ATCGAGAATGCCTTCCAAGGAAACCTCTGCCGCTGTACAGGCTATAGACCCATCCTCCAGGGATTCCGGA
CCTTTGCCAAGGATGGTGGGTGCTGTGGAGGAAGTGGAAACAACCCAAACTGCTGCATGAGCCAAACAAA
GGACCAGACGATTGCTCCCTCATCTTCTTTATTCAACCCGGAGGATTTCAAACCTTTAGATCCCACCCAA
GAGCCCATCTTTCCCCCAGAGTTGCTGAGGCTGAAAGACACTCCCCGGAAGACGTTGCGTTTTGAAGGGG
AACGTGTGACCTGGATCCAGGTTTCAACCATGGAGGAACTGCTTGACCTCAAAGCCCAGCACCCTGATGC
CAAGCTGGTGGTGGGAAACACAGAGATAGGCATTGAAATGAAATTTAAAAATATGCTATTTCCTCTGATC
ATCTGCCCAGCCTGGATCCTTGAACTGACCTCAGTGGCACATGGGCCTGAGGGAATCTCCTTTGGAGCCG
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GGTGTTCAGAGGCGTGATGGAGCAGCTGCGCTGGTTTGCTGGCAAGCAGGTCAAGTCCGTGGCGTCCATT
GGCGGGAACATCATCACCGCGAGCCCCATCTCTGACCTCAACCCTGTGCTCATGGCCAGTCGAGCCAAGC
TGACCCTCGCATCTAGAGGTACCAAGAGAACGGTCTGGATGGACCATACCTTCTTCCCTGGCTATAGAAG
GACTCTGCTCAGTCCAGAGGAGATATTGGTGTCCATTGTGATCCCCTACAGCAGGAAGGGTGAGTTTTTC
TCAGCCTTCAAGCAGGCCTCCAGGAGAGAAGATGACATTGCCAAGGTGACCAGTGGCATGAGAGTCCTGT
TCAAGCCAGGGACCACTGAAGTGCAGGAACTGTCCCTTTGCTTTGGAGGGATGGCTGACAGAACTGTCTC
AGCCCTCAAGACCACTCCGAAGCAGCTGTCCAAGTCCTGGAATGAGGAGTTGCTGCAGGATGTGTGTGCT
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GGCTTGGCAGAGGAGCTGCACCTGGCCCCCGACGCCCCTGGTGGGATGGTGGAATTCCGGCGCACCCTCA
CCCTCAGCTTCTTCTTCAAGTTCTACCTGACAGTGCTTCAGAAGCTGGGCAGAGCGGACCTTGAGGGTAT
GTGTGGTAAACTGGACCCCACCTTTGCCAGCGCCACCCTGCTCTTTCAGAAGGATCCTCCAGCTAACGTC
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ATGAAACTGTCTTTGCGAAGGATGAGGTTACTTGTGTTGGGCACATCATTGGTGCTGTGGTCGCTGACAC
CCCAGAACATGCACACAGAGCCGCTAGAGGGGTGAAAATCACCTATGAAGACCTTCCAGCCATTATCACA
ATCCAGGATGCTATAAAGAACAACTCCTTTTATGGCCCCGAGGTAAAAATCGAGAAAGGAGATCTCAAGA
AAGGCTTTTCTGAAGCTGACAATGTTGTCTCAGGAGAATTATATATTGGTGGCCAGGAGCACTTCTATCT
GGAGACCCACTGCACCATTGCCGTGCCGAAAGGCGAGGCAGGCGAGATGGAGCTCTTCGTGAGCACACAG
AACACCATGAAAACCCAGAGCTTTATTGCAAAGATGTTGGGTGTTCCAGACAACAGAATTGTAGTCCGAG
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GGCAGACATCCCTTCCTGGCTAAATACAAGGTGGGCTTCATGAAGACTGGGACTATAGTGGCACTGGAGG
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CATGGACAACGCCTATAAGATCCCCAACATTCGCGGCACCGGGAGGATTTGTAAGACTAATCTGCCCTCT
AACACAGCCTTCAGAGGCTTTGGGGGTCCTCAGGGGATGCTAATCGCAGAATACTGGATGAGTGAGGTCG
CTGTCACCTGTGGGCTGCCTGCAGAGGAGGTACGGAGGAAAAACATGTACAAAGAAGGGGACCTGACTCA
CTTCAACCAGAAGCTGGAGGGGTTCACCTTGCCCAGGTGCTGGGATGAGTGCATAGCGAGCTCCCAGTAT
CAGGCTCGCAAGATGGAAGTGGAGAAATTCAACAGGGAGAACTGTTGGAAAAAGAGAGGGCTGTGTATAA
TCCCGACTAAGTTTGGAATAAGCTTCACACTTTCTTTTCTGAACCAGGGGGGTGCCTTGGTCCACGTGTA
CACGGATGGGTCGGTGCTGCTGACACATGGAGGTACTGAGATGGGTCAAGGCCTTCACACCAAGATGGTT
CAGGTGGCCAGCAGAGCTCTGAAAATCCCCACTTCCAAGATCCATATAACGGAGACAAGCACTAACACTG
TCCCTAACACCTCTCCCACGGCTGCCTCTGCCAGCGCTGACCTCAATGGCCAGGCCATTTATGAAGCCTG
TCAGACCATACTGAAAAGACTGGAGCCCTTCAAGAAAAAGAATCCCTCAGGCTCCTGGGAGAGCTGGGTC
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GCTTTGAGACAAACTCTGGGAACCCCTTCCACTACTTCAGTTATGGGGTGGCTTGCTCAGAAGTAGAAAT
TGACTGCTTAACAGGGGACCATAAGAATCTCCGTACAGATATCGTCATGGATGTTGGTTCCAGCTTGAAT
CCTGCCATTGATATCGGACAGGTAGAAGGGGCATTTGTCCAGGGTCTTGGTCTTTTCACCATGGAGGAGC
TGCACTACTCTCCCGAGGGGAGCCTGCACACTCGTGGCCCCAGTACCTACAAGATCCCTGCATTTGGCAG
CATCCCCATTGAGTTCAGAGTATCCCTGCTCCGCGACTGCCCCAACAAGAGGGCCATCTATGCATCCAAG
GCTGTCGGCGAGCCACCTCTTTTCCTGGCTTCTTCGATCTTCTTTGCCATCAAAGATGCCATCCGCGCAG
CTCGAGCTCAGCACGGAGACAGTAACGCCAAACAGCTCTTCCAGCTAGACAGCCCCGCCACTCCGGAGAA
GATCCGAAACGCTTGTGTGGATCAGTTCACCACCCTGTGTGCCACTGGAACACCAGAAAACTGTAAATCC
TGGTCCGTGAGGATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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).

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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]

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