

Product datasheet for **RR208844**

Xylb (NM_001033704) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xylb (NM_001033704) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xylb
Synonyms:	MGC124790
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR208844 representing NM_001033704
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGCGGGCGGGCCCGCTGTTGCTGGGCTGGGACTTCAGCACGCAGCAGGTCAAAGTCGTTG
 CTGTTGATGCAGAGCTGAACGTCTTCTATGAGGACAGTGTGCATTTTGACAGAGACCTTCCGGAATTTGG
 AACTCAGGGCGGTGCCATGTACACAAGGACAGGCTGACGGTCACCTCTCCGGTCTGATGTGGGTCAG
 GCTCTGGACCTGATCCTGGAGAAGATGAAGGCTTCCGGCTTTGACTTCTCTCAAGTTCTAGCCTTATCTG
 GGGCAGGCCAGCAACACGGAAGCGTTTACTGGAAGACTGGAGCCAGCCTGGCGTTGTCAAGCCTGTCACC
 GGCTCTCCTGTTGCATCAGCAGCTACAGGCTGCTTCTCCGTGAGTACTGCCCCGATATGGATGGACTCC
 AGTACCACAGCCCAGTGTACCAGCTGGAGGCTGCGGTGGTGGGGCCAGGCTCTCAGTCGCTCACAG
 GGTCCCGGGCCTATGAGCGATTTACGGGAACAGATCTCAAAGATTTTCCAGAAGAACCCTGAGGCCTA
 CTGAACTCTGAGAGAATTTCTTGGTCAGTAGTTTTGCTGCTTCCGTGTTCTGGTAGGTAAGTACTCGCCC
 ATCGACTACAGTATGGGCTCGAATGAATTTGTTGCAGATCCAGGAAAAGTCTGGTCCCAGGCTTGCC
 TGGATGCCTGTGCCCCCATTGAAGGAGAAGCTGGGTTACCCGGTCCCTTCTGCTCTGTTGTGGGAGC
 CATTCTTCTACTACGTTACAGGCTATGGATCCCTCCAGATGCAAAGTGGTGGCCTTACTGGGGAC
 AACCCGGCATCACTGGCCGGCATGAGGCTGGAGGAAGGAGATGTTGCGGTGAGCCTGGGCACCAAGTACA
 CCCTATTTCTCTGGCTCCAAAAGCCATGCCTGCCTTGAAGGGCACATCTTCTGCAACCCAGTGGATGC
 ACGGCAATATATGGCGCTTCTGTGCTTTAAAAATGGCTCCCTCATGAGAGAGAAGATTCGAGACGAGTCT
 GCTTCTGTTCTGGAACAAGTTCTCTAAGGCCCTGCAGTCCACTGAGATGGGGAACAACGAAACTTGG
 GTTTTTATTTTCGATGTCATGGAGATCACCCCTGAGATTATCGGGTGCCATAGGTTAATGCAGATAACAT
 GGAGTCTCGGCATTCCTGGAGATGTGGAGATCCGAGCCTGGTTGAAGGCCAGTTCATGGCCAAGAGG
 ATTCATGCAGAAGCCTAGGCTACCGAATCATGCCTAAGACAAAGATTCTGGCCACGGGAGGAGCCTCTC
 ACAATAAAGACATCTTGCAGGTGCTTGCAGATGTTTTTGGGGCCCTGTGTATGTCATAGACACCACAG
 TTCAGCCTGTGTTGGCTCCGCATACCGAGCCTTTCACGGCCTTGCAGGAGGGACAGGTGTAGCCTTTTCA
 GAGGTGGTAAAATCAGCACACAGCCAGCCTGGCTGCCACCCCAACCCAGGAGCTTCCAGGTTTATG
 CAGCCCTTCTCCCTCGATATGCTGAAGTGAACAGAGAATCTTGTCAAAGCTCGGGGCCCTCTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208844 representing NM_001033704
 Red=Cloning site Green=Tags(s)

MAERAGRRCCLGWDFSTQQVKVAVDAELNVFYEDSVHFDRLPEFGTQGGVHVHKDRLTVTSPVLMWVQ
 ALDLILEKMKASGFDFSQVLALSGAGQQHGSVYWKTAGSLALSSLSPALLLHQQLQACFSVSDCPIWMDS
 STTAQCHQLEAAVGGQAQALSCLTGSRAYERFTGNQISKIFQKNPEAYSNSERISLVSSFAASLFLGRYSP
 IDYSDGSGMNLQIQEKVWSQAQLDACAPHLKEKLGSPVPSVVGAISSYYVQRYGFPFGKVVAFVTD
 NPASLAGMRLEEGDVAVSLGTSDFLFLWLQKPMPELGHIFCNPVDRQYMALLCFKNGSLMREKIRDES
 ASCSWNKFSKALQSTEMGNNGNLGFYFDVMEITPEIIGCHRFNADNMEVSAFPGDVEIRALVEGQFMAKR
 IHAEGLGYRIMPVKILATGGASHNKDILQVLADVFGAPVYVIDTSSACVGSAYRAFHLAGGTGVAFS
 EVVKSAPQPSLAATPNPGASQVYAALLPRYAELEQRILSKARGPLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001033704

ORF Size: 1608 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_001033704.1](#), [NP_001028876.1](#)

RefSeq Size: 3301 bp

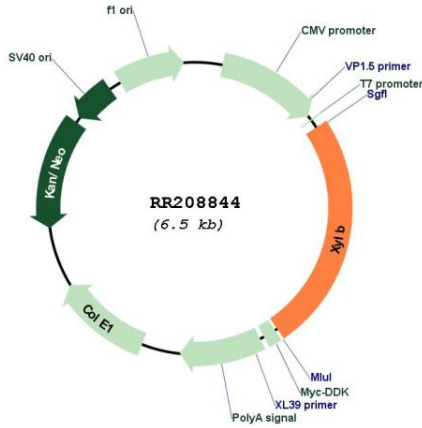
RefSeq ORF: 1611 bp

Locus ID: 316067

UniProt ID: [Q3MIF4](#)

Cytogenetics: 8q32
MW: 58 kDa
Gene Summary: Phosphorylates D-xylulose to produce D-xylulose 5-phosphate, a molecule that may play an important role in the regulation of glucose metabolism and lipogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR208844