

Product datasheet for **MG224257**

Xylb (NM_001033209) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xylb (NM_001033209) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Xylb
Synonyms:	A1132223; A1327421
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG224257 representing NM_001033209
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACGCACGGACGCACAGACGGCGGGGAAACCCAGGGCCCTGGCGGAGCGCGGGGGCCCGCT
 GTTGCCTGGGCTGGACTTCAGCACGCAGCAGGTTAAAGTTGTTGCTGTTGATGCAGAGTTGAACGCTT
 CTATGAGGACAGCGTGCATTTTGACAGAGACCTCCGGAATTTGAACTCAGGGCGGTGCCATGTACAC
 AAGGACAGGCTGACGGTCACTCTCCGGTCTGATGTGGGTCCAGGCTCTGGACCTGATCTGGGAAGA
 TGAAGTCTTGGCTTTGACTTCTCAAGTTCTAGCCTATCTGGAGCAGGCCAGCAACACGGAAGTGT
 TTAAGGAACTGGAGCCAGCTGGCCCTGTCAAGCTTGTACCAGCTTCCATTACATCAGCAGCTG
 CAGAGCTGCTTCCATCAGCGACTGCCAATATGGATGGACTCCAGTACCACAGCCAGTGCCACCAGC
 TGGAGGCTGCCGTGGGTGGGCCCAGGCTCTCAGCTGCCTCACAGGATCCCGGCCATGAGCGTTTAC
 GGGGAACCAGATAGCGAAGCTTTCCAGAAGAACCCTGAGGCCTACTCACACTCTGAGAGAATTTCTTG
 GTCAGCAGCTTTGCTGCCTCGCTGTTCCGGTGGTACTCGCCATCGACTACAGTGTGGTCCGGAA
 TGAATCTGTTGCAGATCCAGGAAAAAGTCTGGTCCAGGCTTGTCTGGATGTCTGTCTCCCATTTGGA
 GGAGAAGCTGGGCTACCGGTCCCTTCTGTTGAGTTGTGGGAACCATTTCTTCTACTACGTCCAGCGC
 TATGGATCCCTCCAGGATGCAAAGTGGTGGCCTTCAAGTGGGACAACCCAGCGTCACTGGCCGGCATGA
 GGCTGGAGGAAGGAGATATTGCGGTGAGCTGGGACCAGCGACACCCTGTTTCTCTGGCTCCAGAAGCC
 CATGCCTGCCTTGAAGGCCACATCTTCAACCCAGTGGATCCGCAGCATTACATGGCGCTTCTATGC
 TTTAAAAACGGCTCCCTCATGAGAGAGAAGATCCGAGATGAGTCGGCCTCCTGTTCTGGAACAAGTCT
 CTAAGGCCCTGAAGTCCACGGCGATGGGGAACAACGGAAACTGGGTTTTTATTTTCGATGTAATGGAGAT
 CACCCCTGAAATTTGGGCGTCATAGGTTTAAATGCGGAAACATGGAGGTTTCAGCATTCCCTGGGGAT
 GTGGAGATCCGAGCACTGATTGAAGGACAATTCATGGCCAAGAGGATTCATGCAGAAGGCCATAGGCTACA
 GAGTCATGCCAAGACAAAGATTCTGGCCACGGGAGGAGCATCTCACAATAAAGACATCTTGAGGTGCT
 TGCAGATGTTTTGGGGCCCCGTATACGTCATAGACACCAGTTCAGCCTGCGTCCGCATAC
 CGAGCTTTTATGGCCTTGACAGGAGGACAGGTGTGGCCTTTTCGGAGGTTGTGAAATCAGCACCTCAGC
 CCAGCCTGGCTGCCACCCCAACCCAGGAGCTTCCAGGTCTATGCGGCCCTTCCCTCGATACTCTGC
 ACTGGAACAGAGAATCTGTCCACCGCCAGAGGCTCTGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224257 representing NM_001033209
 Red=Cloning site Green=Tags(s)

MDARTHRAAGTPRALAERARRRCLGWDFSTQQVKVAVDAELNVFYEDSVHFDRLPEFGTQGGVHVH
 KDRLTVTSPVLMWVQALDLILGKMKSSGFDFSQLALSGAGQQHGSVYWKTGASLALSSLSPALPLHQQL
 QSCFISDCPIWMDSSTTAQCHQLEAAVGAQALSCLTGSRAYRFTGNQIAKLFQKNPEAYSHSERISL
 VSSFAASLFLGGYSPIDYSDGSGMNLQIQEKVWSQAACLDVCPHLEEKLGSPVPSVSVGTISSYYVQR
 YGFPPGCKVVAFSGDNPASLAGMRLEEGDIAVSLGTSDFLWLQKMPALEGHIFCNVPDPQHVMALLC
 FKNGSLMREKIRDESASCSWNKFSKALKSTAMGNNGNLGFYFDVMEITPEIIGRHRFNAENMEVSAFPGD
 VEIRALIEGQFMAKRIHAEGLGYRVMPKTKILATGGASHNKDILQVLADVFGAPVYVIDTSSACVGSAY
 RAFHGLAGGTGVAFSEVKSAPQPSLAATPNPGASQVYAALLPRYSALEQRILSTAQRPLE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001033209

ORF Size: 1653 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_001033209.3](#), [NP_001028381.1](#)

RefSeq Size: 3860 bp

RefSeq ORF: 1656 bp

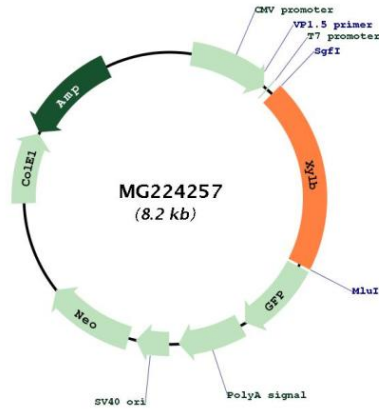
Locus ID: 102448

UniProt ID: [Q3TNA1](#)

Cytogenetics: 9 F3

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 MG224257