

Product datasheet for **RR206864**

Xylt2 (NM_022296) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xylt2 (NM_022296) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xylt2
Synonyms:	xylt-II
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR206864 representing NM_022296
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
 GCCC

ATGGTGGCGAGCGCGCGGGTGCAGAAGCTGGTGCGGCGCTACAAGCTGGCGATCGCCACCGCGCTGGCCA
 TCCTGCTGCTGCAGGGCCTGGTGGTGTGGAGCTTCAGCGCCTGGAGGAGGACGAGCCGGCGAGAAAGG
 AAGGCAGAGAAAGCCACGGCCGCTAGACCCTGGAGAGGGTTCCAAGGACACGGACAGCTCTGCAGGGCGT
 AGGGGCGAGTGTGGGAGAAGGCACGGACGGTGGCGGGGCCGCGCCGAGAGCCAGGTGTGCCTGTGGCCA
 AGGTGGTGCAGGAGTAACAGTCGGCAGAGAGCCAGCCGACGGGTGCCCTGCCACCTCCAGAGGC
 ACCAGGCCCCAGAACCTGAGTGGAGCAGCAGCCGGGGAAGCACTGATAGGTGCCCGGCTTCCACAA
 CATGGAGACACAGGGAGTGTGGAGGTGCCCTCAGCCACGGATAACAGCTTCACTCCGAAGTGTGAGA
 TTGTGGCAAGGATGCACTGTCAGCACTGGCCCGGCCAGCACCAAGCATTGTCAACAAGAGATTGCTAA
 TGTAGTGTGCTGCACCAAGCTGGGAACCTAATGCCAAAGTCTGTGCCCGGCACTGCCAGCTGGTGGC
 AAGGTGAGCCCTGGCATCCAGTGGGAAGAGGTCCGGGCCAGCAGCCTGTGAGTGGCCCTCTGGTACGCA
 TCGCTACATGCTGGTGGTTACGGCCGTGCTGTGCGCCAGCTGAAGCGTCTTCTGAAGGCCGTCTACCA
 CGAGGAGCACTTCTTTATATTCATGTGGACAAGCGTTCCAACCTACCTGTACCGGGAGGTGGTAGAGCTG
 GCCCAGCACTACGACAATGTACGGGTAACACCTTGGCGCATGGTCAACCTCTGGGGTGGGGCTAGCCTTC
 TGAGGATGTACCTGCGGAGCATGAAGGACCTTCTGGAGATTCTGGTGGACCTGGGACTTCTTCATCAA
 CCTGAGCGCTACTGACTATCCAACAGGACGAATGAGGAGCTGGTAGCGTCTTATCCAAGAACCGGGAC
 AAGAATTTCTCAAGTCACACGGGCGAGACAATCCAGGTTTCATCAAGAAGCAAGGCCTGGACCGCTTT
 TCCATGAGTGTGATTCCACATGTGGCGCTGGGTGAACGGCAGATCCCGCAGGCATCGTGGTGGATGG
 TGGCTCTGACTGGTTCGTGCTGACACGCAGCTTTGTGGAATATGTGGTGTATACAGAGGATCCTCTGGTG
 GCCCAGCTTCGCCAGTTCTATACATACACATTGCTTCCAGCCGAGTCTTCTTCCACACAGTGTGGAGA
 ACAGCCCAGCCTGTGAGAGCCTAGTGGACAACAACCTGCGGGTTACCAACTGGAACCGGAAGCTGGGCTG
 CAAGTGCCAGTACAAGCACATCGTGGACTGGTGTGGTGTCTCCCAACGACTTCAAGCCACAGGACTTC
 CTGCGGCTTCAGCAAGTCTCCAGACCCACCTTCTTTGCCGGAAGTTGAGTCGACTGTGAACAGGAAG
 TCCTGGAATTTGGACTTCCACCTGTATGGCAGTACCCACCCGACCCAGCCCTCAAGGCCTACTG
 GGAGAACATCTACGACATGGCCGATGGCCCTAGTGGACTCAGCGATGTCCTACTACTGCTTACACAGCC
 TTTGCCGATATCAGTCTGCGTCATGCTGCCACTGTTCCCACTGGCCACTGCAGTCTGCAGGTTTGAGC
 CCAGGGGGTTGCCGTCCAGCGTGCACCTGTATTCTATGACGACATTTCCAGGGCTACCTGGTGCAGCA
 GGCAGTGCAGCCCTCAGCCAGGGGCCAGCAGAGACACTTGAGATGTGGCTGATGCCCCAGAGGTTGCTG
 AAGCTGTTGGGGCACAGTGACCAGGCCAGCCGGCTCCAGAGTCTGGAGGTTGGCACTGAGTGGGACCCCA
 AAGAAGCTCTTCCGGAACCTTTGGGGCCTGTTGGGACCACTGGATGAACCTGTGGCATGCAGCGCTG
 GGCCCGGGGCCCCAACCTCACAGCCACTGTGGTCTGGATTGACCCACCTATGTTGTGGCCACATCCTAT
 GACATCACGGTAGATGCGGACACTGAAGTACGCAGTACAAGCCCCACTGAGCCTGCCACTGCGGCCAG
 GAGCCTGGACTGTTGATTGCTTCACTTCTGGAGCCCCCTGGGTGAGACCCGCTTCTCTGCTGCCATT
 GACTTCAACCGCAAACCTACCTCTCAGGAAAGATGATGCCAGCTGGCTGCATGCGGGACCCACCCACAAC
 GAATACATGGAACAGAGTTCCAGGGACTAAGTGGCATCCTGAATCTGCCTCAGCCAGAGGCCGTGGAGG
 AGGCTGCCCGGGCCACACAGAGCTCACAGGTCCTGCACTTGGAGCCTGGACAGATGGGGAAGTGCAG
 TTTCTGCTGTTGCAGGATTGTGTGCCATAGGGCCTTCTTGTCCCTCCCTGGAGCTCTGCAGACTG
 ACCAGCTGGAGCTCTCTGCTCCTGACCCCAAGTCAGAGCTGGGGCCTGTCAAAGCTGACGGACGACTCA
 GG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206864 representing NM_022296
 Red=Cloning site Green=Tags(s)

MVASARVQKL VRRYKLA IATALA ILLLQGL VVWSFSGLEEDPEGEGRQRKPRPLDPGEGSKD TDSSAGR
 RGSAGRRHGRWRGRAESPGVPVAKVVRVAVTSRQRASRRVPPAPPEAPGRQNL SGAAGEALIGAAGFPQ
 HGDTGSGVEGAPQPTDNSF TPKCEIVGKDALSALARASTKHCQQEIANVVCLHQAGNLMPKSVPRHCQLAG
 KVSPGIQWEEVRAQQPVSGPLVRIAYMLV VHGRAVRQLKRLKAVYHEEHFFYIHVDKRSNYLYREVV
 AQLHYDNVRVTPWRMVTIWGGASLLRMYLRSMKDLLEIPGWTWDFFINLSATDYPTRTNEELVAFLSKNRD
 KNFLKSHGRDNSRFIKKQGLDRLFHECD SHMWR LGERQIPAGIVVDGGSDWVFLTRSFVEYVVYTEDPLV
 AQLRQFYTYTLLPAESFFHTVLENSPACESLVDNNLRVTNWNRLGCKCQYKHIVDWCGCSPNDFKPQDF
 LRLQQVSRPTFFARKFESTVNQEVLEILDFHLYGSYPGTPALKAYWENIYDMADGPSGLSDVLLTAYTA
 FARISLRHAATV SPLATAVCRFEPRGLPSSVHL YFYDDHFQGYLVTQAVQPSAQGPAETLEMWLMQRLL
 KLLGHSDQASRLQSLV EGTWDPKERLFRNFGLLGPLDEPVAMQRWARGPNLTATV VVWIDPTYV VATSY
 DITVDADTEVTQYKPLSLPLRPGAWTVRLLQFWEPLGETRFLVLPLTFNRKLP L RKDDASWLHAGPPHN
 EYMEQSFQGLSGILNLPQPEAVEEAARRHTELTGPALEAWTDGELSSFWVAGLCAIGPSSCPSLELCRL
 TSWSSLS PDKSELGPVKADGRLLR

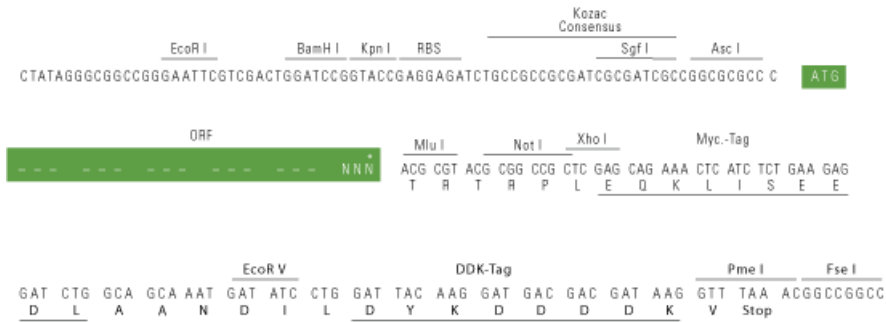
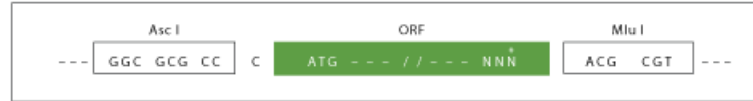
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

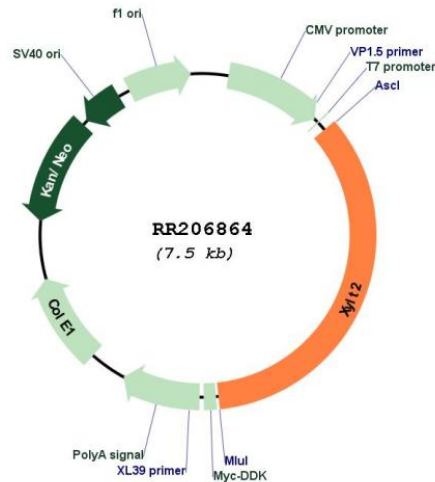
AscI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_022296

ORF Size: 2592 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_022296.2](#), [NP_071632.2](#)

RefSeq Size: 3375 bp

RefSeq ORF: 2595 bp

Locus ID: 64134

Cytogenetics: 10q26

MW: 96.8 kDa

Gene Summary:

isoform of the xylosyltransferase enzyme that catalyzes the transfer of xylose to proteoglycan core protein in glycosaminoglycan biosynthesis [RGD, Feb 2006]