

Product datasheet for **KN222133RB**

XYLT1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	XYLT1
Locus ID:	64131
Components:	<p>KN222133G1, XYLT1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AATTTTCAGCAGCCTCGACTC</p> <p>KN222133G2, XYLT1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGCTGCAGACGCTGGTCTGTG</p> <p>KN222133RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p> <p>Homologous arm and RFP-BSD sequences: pUC vector backbone in gray; Left arm sequence in blue; RFP-BSD in green; Right arm in violet</p> <pre> ATGAAGGGAT CAGACTGTGG CTCTGACACT CCTGAAATGT TTCTCACGTG TCCACCTGCC AACCGGTCTG GTACCGACAG AAGATCCCTG GACCGCGAAC TCCGGGGCTA GGAGCTTCCT CCACGCACTG CCTCCTTCCA GCGGCCACACA GGGAAAACAG GACCTCGGGA CCCCTCTCT TCCTGACCTC CCCTGGATTC TGAGCGGGCC CACCTCAAC CAAAGGTCCC CTGTTTCGCG GCCCTGCCT CTCTTTTCC GCCTTGGGAA TTGTCCCCCT CGCCCCCAT CTAAGTCCA CTAGTCCTG AGGGGTGTCT GTCTTCTCTG ATCGCCCCA CCCCTTCTCT TTCCCTCCTC CTTTCTCTC CTGCGTCTC CCCCAGGCC CCGCCCTCTC CGCCTCGGCC CGCGTCCCCC CGGCGCCTTC CCCATCACCC TCCCCTCCAG CGGGGACAGG GGTGTGGGGA GGGGGGCGGC GGCGGCGGCC CGAGCGGGAG CCCGAGCGGC AGCCGGCGGC CGCGGGAGCT GCGGGGAGCG CGGGGGCGGC CCGGAGCGTG CCGGGGTCCC CGCGCCTCGC TCGCCGGCCG CGCTCCGAAG TCTGGTAAGA TGCCCTTTTC GCTCGCGCCC CGCGGCGAGG GAGGGAGGAA GGCAGCCCGA CCCCACGCC CCCTAGCCCT TGAAGTCCGT CATCAGACTG GGACTCTGCA AGCCTACCGA CTCCACATCG CCTTTGCCC CGGGAAGCCG GGTGGGGTCC CTGCCAAGGC TCAGGGGTCG TGGGCTGCC CTTTCAGAGT CTGAGCACGG ACCCTTGGG GTCTGGGGGA AGTTTTCTCC AGCGGGGGCG CTTTGGGGT TACCGGAGCC TGGCTGGGT CCTGTTCCC ATCACTTTG CTGGGGACCC CAGGTGACTT GCTCCGTGCG TGTAGTCTT GGTGACTCGC TCCCTGCCTG AGTGAGTGGA TCTCCCGGA TCCTCAGCCG CTGTTCTGCG GCGGTTGTCG CAGCAGCATC TCTCTGTTT TTGCCGAGCT GGGTGCAGAC AGTTGAGCCC TCTGTTGTC CTGGCCTGCG ATGAGGGCTG AGCTGGGCGT CCAAGTCCC CGACCATGCC CCTGAATCAA TACTCAGTCC GGGGTGTCTG GTCTTACTTT GGGTCTTCTG TTTCTTCTT CTGGATGTTT GAGCCTTCCG </pre> <p>GE100003, scramble sequence in pCas-Guide vector</p>



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Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq: [NM_022166](#)

UniProt ID: [Q86Y38](#)

Synonyms: DBQD2; PXYLT1; XT-I; XT1; XTl; xylT-I; XYLTl

Summary: This locus encodes a xylosyltransferase enzyme. The encoded protein catalyzes transfer of UDP-xylose to serine residues of an acceptor protein substrate. This transfer reaction is necessary for biosynthesis of glycosaminoglycan chains. Mutations in this gene have been associated with increased severity of pseudoxanthoma elasticum.[provided by RefSeq, Nov 2009]

Product images:

