

## Product datasheet for **KN200258LP**

### **B4GALT7 Human Gene Knockout Kit (CRISPR)**

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	B4GALT7
Locus ID:	11285
Components:	<b>KN200258G1</b> , B4GALT7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN200258G2</b> , B4GALT7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN200258LPD</b> , donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
RefSeq:	<a href="#">NM_007255</a>
UniProt ID:	<a href="#">Q9UBV7</a>
Synonyms:	EDSP1; XGALT1; XGPT1
Summary:	This gene is a member of the beta-1,4-galactosyltransferase (beta4GalT) family. Family members encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose. Each beta4GalT member has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus which then remains uncleaved to function as a transmembrane anchor. The enzyme encoded by this gene attaches the first galactose in the common carbohydrate-protein linkage (GlcA-beta1,3-Gal-beta1,3-Gal-beta1,4-Xyl-beta1-O-Ser) found in proteoglycans. This enzyme differs from other beta4GalTs because it lacks the conserved Cys residues found in beta4GalT1-beta4GalT6 and it is located in cis-Golgi instead of trans-Golgi. Mutations in this gene have been associated with the progeroid form of Ehlers-Danlos syndrome. [provided by RefSeq, Oct 2009]



[View online »](#)

## Product images:

