

## B4GALT7 Knockout cell line (HCT 116)

Catalog Number: KO01780

| Product Information        |                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name               | B4GALT7 Knockout cell line (HCT 116)                                                                                                                                          |
| specification              | 1*10 <sup>6</sup>                                                                                                                                                             |
| Storage and transportation | Dry ice preservation/T25 live cell transportation.                                                                                                                            |
| Cell morphology            | Epithelioid, adherent cell                                                                                                                                                    |
| Passage ratio              | 1:2~1:4                                                                                                                                                                       |
| species                    | Human                                                                                                                                                                         |
| Gene                       | B4GALT7                                                                                                                                                                       |
| Gene ID                    | 11285                                                                                                                                                                         |
| Build method               | Electric rotation method / virus method                                                                                                                                       |
| Mycoplasma testing         | Negative                                                                                                                                                                      |
| Cultivation system         | 90%McCoy's 5A+10% FBS                                                                                                                                                         |
| Parental Cell Line         | HCT 116                                                                                                                                                                       |
| Quality Control            | Genotype: B4GALT7 Knockout cell line (HCT 116) >95% viability before freezing. All cells were tested and found to be free of bacterial, viruses, mycoplasma and other toxins. |

| Gene Information        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Gene Official Full Name | beta-1,4-galactosyltransferase 7 provided by HGNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Also known as           | XGPT; EDSP1; XGPT1; EDSSLA; XGALT1; EDSPD1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Description        | 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] |

## Expression

Ubiquitous expression in testis (RPKM 4.7), prostate (RPKM 3.6) and 25 other tissues [See more](#)