

Product datasheet for **SR322499**

B3GALNT1 Human siRNA Oligo Duplex (Locus ID 8706)

Product data:

Product Type:	siRNA Oligo Duplexes
Purity:	HPLC purified
Quality Control:	Tested by ESI-MS
Sequences:	Available with shipment
Stability:	One year from date of shipment when stored at -20°C.
# of transfections:	Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
Note:	Single siRNA duplex (10nmol) can be ordered.
RefSeq:	<u>NM_001038628</u> , <u>NM_003781</u> , <u>NM_033167</u> , <u>NM_033168</u> , <u>NM_033169</u> , <u>NM_001349130</u> , <u>NM_001349131</u> , <u>NM_001349132</u> , <u>NM_001349133</u> , <u>NM_001349134</u> , <u>NM_001349135</u> , <u>NM_001349136</u> , <u>NM_001349137</u> , <u>NM_001349138</u> , <u>NM_001349139</u> , <u>NM_001349140</u> , <u>NM_001349141</u> , <u>NM_001349142</u> , <u>NM_001349143</u> , <u>NM_001349144</u> , <u>NM_001349145</u> , <u>NM_001349146</u> , <u>NM_001349147</u> , <u>NM_001349148</u> , <u>NM_001349149</u> , <u>NM_001349150</u> , <u>NM_001349151</u> , <u>NM_001349152</u> , <u>NM_001349153</u> , <u>NM_001349154</u> , <u>NM_001349155</u> , <u>NM_001349156</u> , <u>NM_001349157</u> , <u>NM_001349158</u> , <u>NM_001349159</u> , <u>NM_001349160</u> , <u>NM_001349161</u> , <u>NM_001349162</u> , <u>NM_001349163</u>
UniProt ID:	<u>O75752</u>
Synonyms:	B3GALT3; beta3Gal-T3; galT3; Gb4Cer; GLCT3; GLOB; P; P1
Components:	B3GALNT1 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 8706) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml



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Summary:

This gene is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes synthesize type 2 carbohydrate chains. The ratio of type 1:type 2 chains changes during embryogenesis. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3, beta3GalT5). The encoded protein of this gene does not use N-acetylglucosamine as an acceptor sugar at all. [provided by RefSeq, Mar 2017]

Performance Guaranteed:

OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will provide at least 70% or more knockdown of the target mRNA when used at 10 nM concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT positive control (cat# SR30003) provides 90% knockdown efficiency.

For non-conforming siRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with newly designed duplexes, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data required).