

Product datasheet for **RG200258**

B4GALT7 (NM_007255) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4GALT7 (NM_007255) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B4GALT7
Synonyms:	EDSP1; EDSSLA; EDSSPD1; XGALT1; XGPT; XGPT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200258 representing NM_007255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCCTCGCGGAGGAAAGCGGCGCAGCTGCCCTGGGAGGACGGCAGGTCCGGTGTCTCCGGCG
GCCTCCCTCGGAAGTGTCCGTCTCCACCTGTTCTGGCCTGCCTCTCGCTGGGCTTCTCTCCCTACT
CTGGCTGCAGCTCAGCTGCTCTGGGACGTGGCCCGGCAGTCAGGGACAAGGGCAGGAGACCTCGGGC
CCTCCCCGCGCTGCCCCAGAGCCGCCCTGAGCACTGGGAAGAAGACGCATCCTGGGGCCCCACC
GCCTGGCAGTGTGGTGCCTTCCGCGAACGCTTCGAGGAGCTCCTGGTCTTCGTGCCCCACATGCGCCG
CTTCTGAGCAGGAAGAAGATCCGGCACCATCTACGTGCTCAACCAGGTGGACCACTTCAGGTTCAAC
CGGGCAGCGCTCAACAGTGGGCTTCCCTGGAGAGCAGCAACAGCACGGACTACATTGCCATGCACGACG
TTGACCTGCTCCCTCTCAACGAGGAGCTGGACTATGGCTTTCCTGAGGCTGGGCCCTTCCAGTGGCCTC
CCCGGAGCTCCACCCTCTTACCACTACAAGACCTATGTGCGGCGCATCCTGCTGCTCTCCAAGCAGCAC
TACCGCTGTGCAATGGGATGTCCAACCGCTTCTGGGGCTGGGGCCGCGAGGACGACGAGTTCTACCGGC
GCATTAAGGGAGCTGGGCTCCAGCTTTTCCGCCCTCGGAATCACAACTGGGTACAAGACATTTGCCA
CCTGCATGACCCAGCCTGGCGGAAGAGGGACCAGAAGCGCATCGCAGCTCAAAAACAGGAGCAGTTCAAG
GTGGACAGGGAGGGAGGCTGAACACTGTGAAGTACCATGTGGCTTCCCGCACTGCCCTGTCTGTGGCG
GGCCCCCTGCACTGTCTCAACATCATGTTGGACTGTGACAAGACCGCCACACCCTGGTGACATTCAG
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200258 representing NM_007255
 Red=Cloning site Green=Tags(s)

MFPSRRKAAQLPWEDGRSGLLGGGLPRKCSVFHLFVACLVLGFFSLLWLQLSCSGDVARAVRGQGQETSG
 PPRACPEPPPEHWEEDASWGPRLAVLVPFRERFEELLVFVPHMRFLSRKKIRHHIYVLNQVDHFRFN
 RAALINVGFLSSNSTDYIAMHDVDLLPLNEELDYGFPEAGPFHVASPELHPLYHKTYVGGILLSSKQH
 YRLCNGMSNRFWGREGDEDFYRRIKAGLQLFRPSGITTYKTFRHLHDPAWRKRDKRIAAQKQEQFK
 VDREGGLNTVKYHVASRTALSVGGAPCTVLNIMLDCDKTATPWCTFS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007255

ORF Size: 981 bp

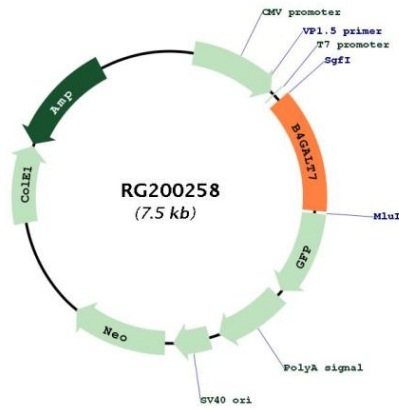
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_007255.1 , NP_009186.1
RefSeq Size:	1669 bp
RefSeq ORF:	984 bp
Locus ID:	11285
UniProt ID:	Q9UBV7
Cytogenetics:	5q35.3
Domains:	Galactosyl_T_2
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG200258