

Product datasheet for **RG207831**

GLT25D2 (COLGALT2) (NM_015101) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLT25D2 (COLGALT2) (NM_015101) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLT25D2
Synonyms:	C1orf17; ColGalT 2; GLT25D2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207831 representing NM_015101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGCGCGCCCTGCTGCCACCTCGCCTGGTGCCTACTGCTCCTCTCCTCAGCCCTGCTCCGGAAG
 GCTGCCGAGCGCCTTCGTCGCCGAGCGGACTCGGAGGACGACGAGAGAGCCGGTGGTTTTCCCGGA
 GTCGCCCTTCGAGAGCCACCGGTGCTCGTGGCGGTCCTCGCCGCAACGCGGCGCACACGCTGCCGCAC
 TTCCTCGGCTGCCTGGAGCGGCTGGACTACCCCAAGAGCAGGATGGCCATCTGGGAGCCACTGATCACA
 ATGTGGATAATACAACAGAAATATTCAGGGAGTGGTTGAAAAATGTACAGAGACTCTATCACTATGTGGA
 GTGGAGGCTATGGATGAACCAGAGTCTTACCCTGATGAAATTGGACCAAAGCACTGGCCAACTCCCGG
 TTTGCCATGTGATGAACTACGACAGGACGCCCTTCGAACTGCGAGGAAAAATGGTCAGACTACATTC
 TGTTTCATAGATGTTGACAATTCCTGACTAATCCACAGACCTCAATCTACTGATTGCAGAAAAACAAAC
 TATTGTGGCCCCATGCTGGAGTCTCGGGCCTGTATTCTAATTTCTGGTGCAGAAATCACCCCTAAGGGC
 TTCTATAAGAGGACCCAGACTACGTTTCAGATTCGAGAATGGAAGAGGACAGGCTGCTTCCCCGTCCCA
 TGGTCCACTCCACCTTCTAATTGACCTCAGGAAGGAGGCTCGGACAAGCTGACTTTTACCCCCACACA
 CCAGGACTACACCTGGACCTTTGATGACATCATTGCTTTGCCTTCTCCAGCAGGCAAGCAGGCATCCAG
 ATGTACCTCTGCAACAGAGAGCACTATGGCTACCTGCCATCCCCCTGAAGCCCCATCAGACACTGCAGG
 AAGACATCGAGAACCTCATCCATGTGCAGATTGAAGCAATGATTGACCGTCTCCAATGGAACCCCTCCCA
 GTATGTCTCAGTTGTCCCTAAATATCCAGACAAGATGGGATTTGATGAGATTTTCATGATAAACCTCAA
 CGCAGAAAGGACAGGCGGGACCGGATGCTGCCACACTGTATGAACAGGAGATTGAGGTCAAGATTGTGCG
 AGGCTGTGGATGGAAAGGCACTCAACACAAGCCAGCTGAAGGCACTGAATATTGAAATGCTGCCTGGCTA
 TCGAGATCCCTATTCTCCAGGCTCTAACAAGGGGTGAAATCGGCTGCTTTCTCAGCCACTACTCAGTC
 TGGAAAGAGGTAATTGATCGAGAGCTAGAGAAGACTCTTGTAAATTGAAGACGATGTGCGTTTTGAGCATC
 AGTTTAAAGAAGAGCTGATGAAGCTGATGGATAACATTGACCAGGCTCAGCTGGACTGGAACTGATTTA
 TATTGGTAGGAAGAGGATGCAAGTAAAGGAGCCAGAGAAAGCAGTGCCCAATGTGGCAAACCTGGTCGAA
 GCCGACTATTCTACTGGACCTGGGCTACGTCATCTCTGGAAGGAGCACAGAAGCTGGTTGGAGCCA
 ATCCTTTTGGGAAGATGCTGCCAGTGGATGAGTTTCTGCCAGTCATGTACAACAAGCATCCCGTAGCCGA
 GTACAAGGAGTATTATGAATCCAGGACCTGAAAGCCTTCTCTGCAGAACCCTTGCTCATCTACCCTACG
 CACTACACAGGCCAGCCGGGTACTGAGTGACACGGAGACCTCCACCATCTGGGACAATGAGACAGTGG
 CCACCGACTGGGATAGGACACATGCCTGGAAAGTCCCGGAAGCAAAGCCGATCTACAGCAATGCCAAGAA
 CACAGAGGCCCTGCCACCGCAACCTCCCTGGACTGTGCCTTCAAGGGATGAGCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207831 representing NM_015101
 Red=Cloning site Green=Tags(s)

MAARPAATLAWLLLLSSALLREGCRARFVAERDSEDDGEEPVVFPESPLQSPTVLVAVLARNAHTLPH
 FLGCLERLDYPKSRMAIWAATDHNVDNTEIFREWLKNVQRLYHYVEWRPMDPEPESYPDEIGPKHWPTSR
 FAHVMKLRQAALRTAREKWSYILFIDVDNFLTNPQTLNLLIAENKTIVAPMLESRGLYSNFWCGITPKG
 FYKRTPDYVQIREWKRTGCFVPMVHSTFLIDLRKEASDKLTFYPPHQDYTWTFDDIIVFAFSSRQAGIQ
 MYLCNREHYGYLPIPLKPHQTLQEDIENLIHVQIEAMIDRPPMEPSQYVSVVPKYPDKMGFDEIFMINLK
 RRKDRRDRMLRTLYEQEIEVKIVEAVDGGKALNTSQLKALNIEMLPGYRDPYSSRPLTRGEIGCFLSHYSV
 WKEVIDRELEKTLVIEDDVRFEHQFKKLMKLMNDIDQAQLDWELIYIGRKRMQVKEPEKAVPNVANLVE
 ADYSYWTLYGVIISLEGAQKLVGANPFGKMLPVDFLPVMYNKHPVAEYKEYYESRDLKAFSAEPLLIYPT
 HYTGQPGYLSDTETSTIWDNETVATDWRTHAWKSRKQSRISNAKNTEALPPPTSLDTVPSRDEL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_015101

ORF Size: 1878 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:

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_015101.4](#)

RefSeq Size: 5182 bp

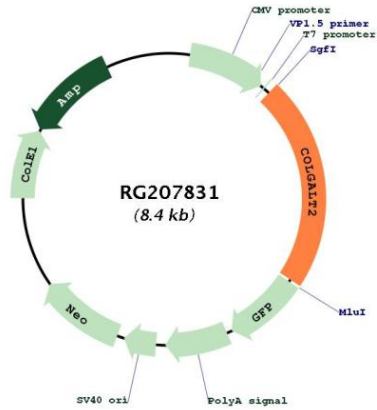
RefSeq ORF: 1881 bp

Locus ID: 23127

UniProt ID: [Q8IYK4](#)

Cytogenetics: 1q25.3
 Domains: Glyco_transf_25
 Gene Summary: Beta-galactosyltransferase that transfers beta-galactose to hydroxylysine residues of collagen.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207831