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Product datasheet for SC313314

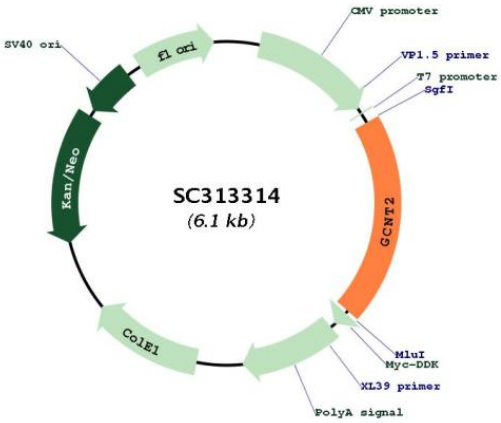
GCNT2 (NM_145655) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCNT2 (NM_145655) Human Untagged Clone
Tag:	Tag Free
Symbol:	GCNT2
Synonyms:	bA360O19.2; bA421M1.1; CCAT; CTRCT13; GCNT2C; GCNT5; IGNT; II; NACGT1; NAGCT1; ULG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313314 representing NM_145655. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGAACTTTTGGAGGTACTGCTTTTTTGCTTTCACTCTGCTCAGCGTGGTCATTTTTGTGAGATTTTAC AGTAGCCAATTGAGCCCGCCAAAAAGTTATGAGAAGCTGAACAGTTCCAGTGAAAGGTATTTTAGGAAA ACTGCCTGTAATCACGCCTTAGAGAAAATGCCAGTCTTTTTGTGGGAAAATATATTACCATCACCTTTG CGAAGTGTCCCTTGCAAGGATTACCTGACCCAGAATCACTACATCACAAGTCCCCTGTCGGAAGAAGAG GCTGCATTCCCTTTGGCCTATGTCATGGTCATCCATAAGGACTTTGACACCTTTGAAAGGCTCTTTAGG GCTATCTATATGCCCCAAAATGTCTACTGTGTTCACGTGGATGAGAAAGCCCCAGCTGAGTATAAGGAA TCTGTGAGGCAGTTACTGAGTTGCTTCCAAAATGCTTTCATTGCTTCAAAGACAGAGTCTGTGGTTTAT GCAGGCATTTCCAGACTCCAGGCTGACCTGAACTGTCTGAAAGACCTTGTCGCCTCTGAGGTTCCCTGG AAGTACGTCATCAACACCTGTGGACAAGACTTCCCCCTGAAAACCAACCGGGAGATAGTTCAGCATCTG AAAGGATTTAAAGGGAAAAATATCACCCCAGGGGTGCTGCCTCCTGACCATGCAATTAAGCGAACTAAA TATGTCCACCAAGAGCATACAGATAAAGGTGGCTTTTTTGTGAAAAATACTAATATTTTGAAAACTTCA CCTCCACATCAGCTGACCATCTACTTTGGCACTGCCTATGTGGCGCTTACCAGAGACTTTGTCGACTTT GTTCTACGTGACCAAAGGGCCATTGATCTACTACAATGGTCAAAAGATACCTATAGTCCTGATGAGCAT TTCTGGGTGACACTTAATAGGGTTTCAGGTGTTCCTGGCTCTATGCCAAATGCATCCTGGACTGGAAAC CTCAGAGCTATAAAGTGGAGTGACATGGAAGACAGACACGGAGGCTGCCACGGCCACTATGTACATGGT ATTTGTATCTATGGAAACGGAGACTTAAAGTGGCTGGTTAATTCACCAAGCCTGTTTGCTAACAAGTTT GAGCTTAATACCTACCCCCTTACTGTGGAATGCCTAGAACTGAGGCATCGCGAAAGAACCCTCAATCAG AGTGAAACTGCGATACAACCCAGCTGGTATTTTTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

View online »

Plasmid Map:



ACCN:	NM_145655
Insert Size:	1209 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_145655.3
RefSeq Size:	4219 bp
RefSeq ORF:	1209 bp
Locus ID:	2651
UniProt ID:	Q06430
Cytogenetics:	6p24.3-p24.2

Domains:	Branch
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
MW:	46.5 kDa
Gene Summary:	This gene encodes the enzyme responsible for formation of the blood group I antigen. The i and I antigens are distinguished by linear and branched poly-N-acetyllactosaminoglycans, respectively. The encoded protein is the I-branching enzyme, a beta-1,6-N-acetylglucosaminyltransferase responsible for the conversion of fetal i antigen to adult I antigen in erythrocytes during embryonic development. Mutations in this gene have been associated with adult i blood group phenotype. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (3) contains a different 5' end exon compared to variant 2. The encoded isoform (C) is longer and has a distinct N-terminus, compared to isoform B. Sequence Note: This RefSeq record represents the GCNT2*001.1.1 allele.