

Product datasheet for **MG206294**

Gcnt2 (NM_023887) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt2 (NM_023887) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gcnt2
Synonyms:	5330430K10Rik; IGnT; IGnTA; IGnTB; IGnTC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206294 representing NM_023887 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTCTTGGAAGTACAGTCTTTTCAGCCTATCTCTCATTGCTGCCTTGATGCTTATGTTTATGTACG
ATAGAAAATTATGGAAGAACTATCATTTCCCGAGGGCGGTTTCCAATATTTAGTCTTAGCGGAAGTCTG
CTTGCAGATGTTAGTGGGAGAGTTTTATACAGCGGACAGCGCACGAAAACCACCCTGGAAAATTC
ACCTGCCCGAGTACAAGATTCAAACCACTACATAACAGAGACTCTCTCTGAAGAAGAAGCCCGCTTCC
CTCTGGCTTTACACTTACTATCCACAAAGATTATGACACTTTGAGAGACTCTTCAAGGCCATTTACAT
GCCCCAGAACGTCTACTGTGTGCACGTGGATAGTAAGGCGACAGACACCTTCAAAGAAGAGGTGCGGCAG
TACTAAGCTGTTTCCCAATGCCTTCTGGCCTTAGGATGGAGCCGGTGGTCTATGGTGGCTTCTCCC
GGCTCAAAGCTGATCTGAACTGCATGAAAGATCTGGTGGCCTCCAAGATCCCCTGGAAAATATGTCCTCAA
CACCTGCGGGCAGGACTTTCCTCTGAAAACCAACAAAGAAATAGTTACAGTACCTGAAACGGTTTATTGGG
AAGAACCTCACCCAGGGGTGCTGCCTCCTGCACATGCAGTTGGAAGAACCAAGTACGTCCACCAGGAGC
TGTTAGACCATAAAAAATCCCTACGTGCACAATACAGCAAGATTAAGGCTCCCCACCTCACAACCTGAC
CATTTACTTTGGCACTGCTTATGTGGCTCTCACACGGGAATTTGCTAACTTTGCTCTCAAAGACCAGCGT
TCAGTAGACTTAATCTCCTGGTCCAAGGACACGTATAGTCTGATGAGCACTTCTGGGTGACACTCAATA
GGATCCCTGGAGTCCCTGGCTCCATGCCACCAACGCATCTGGACGGGTAACTCAGAGCTGTGAAGTG
GATGGACATGGAAGCGAAGCATGGAGGCTGCCATGGTCACTACGTCCATGGCATTGTATCTATGAAAAC
GGAGACTGCAAGTGGCTGATTAATTCGCAAAGCCTGTTTGCTAACAAATTTGAACTCAACACATACCCTC
TTACCGTGGAAATGCCTGGAAGTGGCTTCGAGAAAGAACACTCAACCAGAGTGAGATCGCCATACAGCC
GAGCTGGTATTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206294 representing NM_023887
 Red=Cloning site Green=Tags(s)

MGSWKYSLFSLSLIAALMLMFMYDRKLWKNYHFPRAVSNISVLAEVCLQMFSGESFYTADSARKTTLENF
 TCPEYKIQNHYITETLSEEEARFPLAFTLTIHKDYDTFERLFRAIYMPQNVYCVHVDSKATDTFKEEVRQ
 LLSFCFNAFLASRMPEVVYGGFSRLQADLNCMKDLVASKIPWKYVLNTCGQDFPLKTNKEIVQYLKRFIG
 KNLTPGVLPPAHAVGRTKYVHQELLDHKNPYVHNTARLKAPPPHNLTIYFGTAYVALTREFANFVLKQQR
 SVDLISWSKDTYSPDEHFWTLNRI PGVPGSMPPNASWTGNLRAVKWMDMEAKHGGCHGHYVHGIC IYGN
 GDQLWLINSQSLFANKFELNTYPLTVECLELRLRERTLNQSEIAIQPSWYF

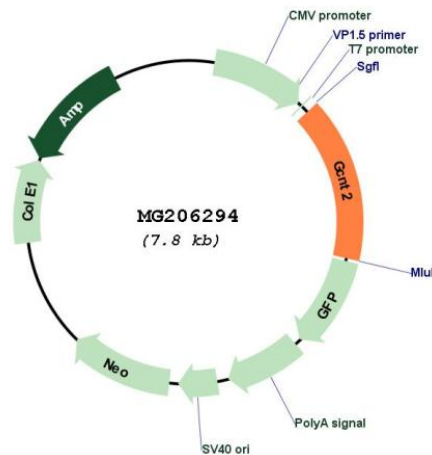
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_023887

ORF Size:	1203 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_023887.4 , NP_076376.3
RefSeq Size:	3995 bp
RefSeq ORF:	1206 bp
Locus ID:	14538
Cytogenetics:	13 20.12 cM
Gene Summary:	Branching enzyme that converts linear into branched poly-N-acetyllactosaminoglycans. Introduces the blood group I antigen during embryonic development. It is closely associated with the development and maturation of erythroid cells.[UniProtKB/Swiss-Prot Function]