

Product datasheet for **MG206293**

Gcnt2 (NM_133219) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt2 (NM_133219) 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:	>MG206293 representing NM_133219 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCTACGCGGAAAGTTTTTCGCTGTCTCTGCGCTCAGCGTGGTGATTTTTGTGGTTTTTATCACA
GCCAGCTAAGCCTGCCAACCTCTACCAGCAGCTCAACAGCTCCAGCGAAAGGACGCTCTGCACCATCTG
TGATTACGGCTTGCAAAATCATACTTCTTACGACGGGGACACATCACCACATCCTTTAGAAAGACTC
TCCTGTCCTCAATACCGGATCCAGAGCCACTATATTACCAGTCCCCTTTCGGAAGAAGAGGCTGCCTTC
CCCTGGCTTACATCATGGTGATCCACAAAGACTTCGATACCTTTGAAAGGCTCTCAGGGCCATTTACAT
GCCCCAGAACGTCTACTGTGTGCATGTGGATAGTAAGGCGACAGACACCTTCAAAGAAGCGGTGCCGCGAG
TACTAAGCTGTTTTCCCAATGCCTTCCCTGGCCTCTAAGGTGGAGCAGGTGGTCTATGGTGGCTTCTCTC
GGCTCCAGGCTGATCTGAACTGCATGAAAGATCTGGTGGCCTCCAAGTCCCCTGAAAATATGTCCTCAA
CACCTGCGGGCAGGACTTCCCTTTGAAAACCAACAAGGAAATAATTAACCATCTGAAAAGATTTAAGGGG
AAAAACATCACTCCGGGAGTGCTGCCCTGCGTACATAGTTGTACGGACTAAATATGTACACCAGGAAC
GCAAAGGCAAAGACGGATATTTTATGCATAAAACAAATATTTGAAGACTCCACCTCCACACCAACTGAT
CATCTACTTCGGCACAGCCTACGTGGCCCTCACCCGGGACTTTGTCAACTTTATCCTGAATGACGAAAGG
GCCATTGCTCTTTAGAGTGGTCTAAAGATACCTATAGCCCTGATGAACATTTTTGGGTGACACTCAATA
GGATCCAGGAGTCCCTGGCTCCATGCCACCAACGCATCCTGGACGGGTAACTCAGAGCTGTGAAGTG
GATGGACATGGAAGCGAAGCATGGAGGCTGCCATGGTCACTACGTCCATGGCATTGTATCTATGAAAC
GGAGACTGCAAGTGGCTGATTAATTCGCAAAGCCTGTTTGCTAACAAATTTGAACTCAACACATACCCTC
TTACCGTGGAAATGCCTGGAAGTGGCTTCGAGAAAGAACAACACTCAACCAGAGTGAGATCGCCATACAGCC
GAGCTGGTATTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206293 representing NM_133219
 Red=Cloning site Green=Tags(s)

MSLRGKVFVAVSALSVVIFVVFYHSQLSLPNLYQQLNSSSERTSVTICDYGLQNHTFFTTGDTSPHPLERL
 SCPQYRIQSHYITSPLEEEAAFLAYIMVIHKDFDTFERLFRAIYMPQNVYCVHVDSKATDTFKEAVRQ
 LLSFCFNAFLASKVEQVVYGGFRLQADLNCMKDLVASKVPWKYVLNNTCGQDFPLKTNKEIINHLKRFKG
 KNITPGVLPAYIVVRTKYVHQERKGDYFMHKTNIKTPPPHQLIIYFGTAYVALTRDFVNFILNDR
 AIALLEWSKDTYSPDEHFWTLNRIIPGVPGSMPPNASWTGNLRAVKWMDMEAKHGGCHGHYVHGICIIYGN
 GDLQWLINSQSLFANKFELNTYPLTVECLELRLRERTLNQSEIAIQPSWYF

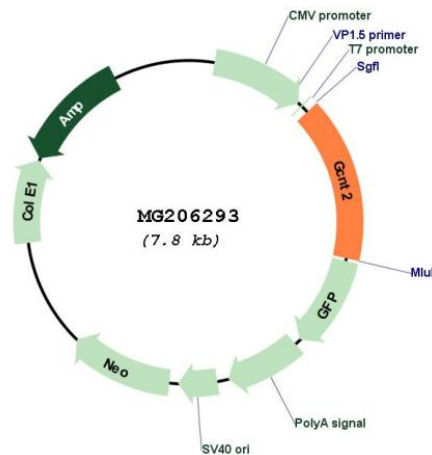
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_133219

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_133219.1 , NP_573482.1
RefSeq Size:	4021 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]