

Product datasheet for **MG206327**

Cant1 (NM_001025618) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cant1 (NM_001025618) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cant1
Synonyms:	5830420C20Rik; Apy; Apy1h; D11Bwg0554e; Entpd8; SCA; SCAN-1; Sh; Shapy
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206327 representing NM_001025618 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCATCCAGCCCTTTGACCAGCGGGAATGGAATGAGCCTATGCACTCCCTCCGGATCAGTGTAGGGG
GCCTTCTGTGCTGGCATCCATGACCAAGGCCACGGACCCTCGCTTCCGCCCCCGCTGGCGGGTATCCT
CACGTCTTTGTGGTGTGCCCTCCTCTGGCTGCTGTACTCCACCATCAGGGCCAGTGCCAGGCAGG
CCCCCACCACAATGCGACAATTGGAGGCTCAGCCAGCAGCGCATCTCTATTACAACGACACCTACC
CCCTCTCCCCCACAGAGGACTCCAGGTGGGATTCGGTACCGAATCGCAGTCATTGCTGACTTGGACAC
GGGGTCCAGGGCCAGGAAGAAAACACTTGGTTTTAGCTACCTTAAGAAAGGCTACCTGACCTGTGGAC
AGCGGGGACAGGGTACGCGTGGAGTGGGATAAAGACCACGGGGTCTAGAGTCCCACCTGGCAGAAAAGG
GGCGGGGCATGGAGCTCTCAGACCTGATTGTCTCAATGGGAACTCTACTCCGTGGATGACCGCACAGG
GGTCATCTACCAGATCGAAGGCACCAAAGCAGTGCCCTGGGTGATCCTTTCTGATGGCGATGGAAGTGTG
GAGAAGGGTTTCAAAGCTGAATGGCTTGTGTGAAGGACGAAACCTGTATGTGGCGCCCTGGGCAAGG
AGTGGACCACCACGACAGGGGAGGTGATGAACGAGAACCCTGAGTGGGTGAAGTGGTAGGCCACAGGGG
CAGTGTGGACCACGAGAAGTGGGTGTCCAGCTACAACGCCCTGAGAGCAGCCGCCGGATCCGACCACCA
GGCTACCTCATTACGAGTCCGCTGCTGGAGCGACACACTGCAGCGCTGTTCTTCTGCCTCGTCGGG
CTAGCCACGAACGCTACAGCGAGAAGGACGATGAACGCAAGGGCAGCAACCTCCTGCTGAGCGCAGCCCA
GGACTTACAGGACATCTCTGTGAGGCAAGTGGGACTCTGATCCCCACCCACGGTTCTCATCCTTCAAG
TTCATCCCCAACCGGATGACCAGATCATTGTGGCTCTCAAGTCGGAAGAGGACAATGGCAGAATCGCCA
CCTATGTCATGGCCTTACGCTGGACGGCCGCTTCTGCTCCAGAGACCAAGATCGGCCTGTGAAGTA
CGAAGGAATAGAGTTCATC

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206327 representing NM_001025618
 Red=Cloning site Green=Tags(s)

MPIQPFQREWNEPMHSLRISVGGLPVLASMTKATDPRFRPRWRVILTSFVGAALLWLLYSHHQGPVPGR
 PPTHNAHNWRLSQQRISHYNDTYPLSPQRTPGGIRYRIAVIADLDTGSRAQEENTWFSYLKKGYLTLSD
 SGDRVSVVEWDKDHGVLESHLAEKGRGMSDLIVFNGLYSVDDRTGVIYQIEGKAVPWVILSDGDGTV
 EKGFKAEWLAVKDEHLYVGGLGKEWTTTTGEVMNENPEWVKVVGHRGSVDHENWVSSYNALRAAAGIRPP
 GYLIIHESACWSDTLQRWFFLPRRASHERYSEKDDERKGSNLLLAAQDFRDISVRQVGTLPETHGFSSFK
 FIPNTDDQIIIVALKSEEDNGRIATYVMAFTLDGRFLLPETKIGTVKYEGIEFI

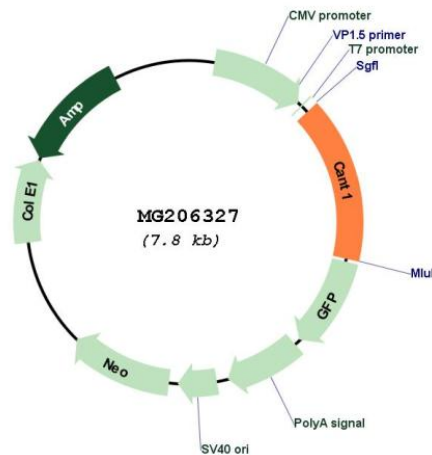
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025618

ORF Size:	2912 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_001025618.1
RefSeq Size:	2831 bp
RefSeq ORF:	1212 bp
Locus ID:	76025
UniProt ID:	Q8VCF1
Cytogenetics:	11 83.15 cM
Gene Summary:	The protein encoded by this gene is a calcium-dependent nucleotidase that preferentially hydrolyzes UDP, GDP, and IDP. The encoded protein has low activity with ADP and ATP and shows no activity with AMP and GMP. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2012]