

Product datasheet for **MG226621**

Comt (NM_001111063) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Comt (NM_001111063) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Comt
Synonyms:	Comt1; D16Wsu103e; D330014B15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226621 representing NM_001111063 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTGGCTGCTGTCTCATTGGGTCTCCTGTTGCTGGCCTTCCTCCTGCTCCTGCGACACCTAGGCT
GGGGCTTGGTGGCTATTGGTTGGTTTGAGTTCGTGCAGCAGCCGGTCCACAACCTGCTCATGGGTGGCAC
AAAGGAGCAGCGCATCCTGCGCCATGTGCAGCAACACGCAAAGCCTGGAGACCCCGAGCGTCTGGAG
GCCATTGATACCTACTGCTCAGAGAAGGAGTGGCCATGAACGTGGGTGACGCAAAGGCCAAATCATGG
ATGCAGTGATTCGGGAGTACAGGCCCTCGCTGGTCTGGAGCTAGGAGCTTATTGTGGCTACTCAGCCGT
GCGAATGGCCCGCTGCTGCCACCTGGAGCCAGGCTTCTACCATGGAGATTAACCCTGACTACGCTGCC
ATCACCCAGCAAATGCTGGACTTCGCAGGCCTACAGGACAAAGTTTCCATCCTCATCGGGGCATCCCAGG
ACCTTATCCCCAGCTGAAGAAGAAGTACGATGTGGACACATTAGACATGGTCTTTCTTGACCACTGGAA
AGACCGCTACCTTCCAGACACACTTCTCCTGGAGGAATGTGGCCTGCTGCGCAAGGGGACGGTGCTCCTA
GCTGACAATGTCATTGTCCCGGGAACCCCTGACTTCTGGCGTATGTGAGGGGGAGCAGCAGCTTCGAGT
GCACACACTACAGCTCATACCTGGAGTACATGAAAGTGGTGGACGGCTTGAGAAAGCAGTCTACCAGGG
TCCAGGCAGCAGCCCCGTAAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226621 representing NM_001111063
 Red=Cloning site Green=Tags(s)

MLLAAVSLGLLLLAFLLLLRHLGWGLVAIGWFEFVQQPVHLLMGGTKEQRILRHVQQHAKPGDPQSVLE
 AIDTYCSEKEWAMNVGDAKGQIMDAVIREYRPSLVLELGAYCGYSAVRMARLLPPGARLLTMEINPDYAA
 ITQQLDFAGLQDKVSILIGASQDLIPQLKKKYDVTLDLVFLDHWKDRYLPDTLLLEECGLLRKGTVLL
 ADNVIIVPGTPDFLAYVRGSSSFECTHYSSYLEYMKVVDGLEKAVYQGPSSSPVK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001111063

ORF Size: 795 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_001111063.1](#), [NP_001104533.1](#)

RefSeq Size: 1996 bp

RefSeq ORF: 798 bp

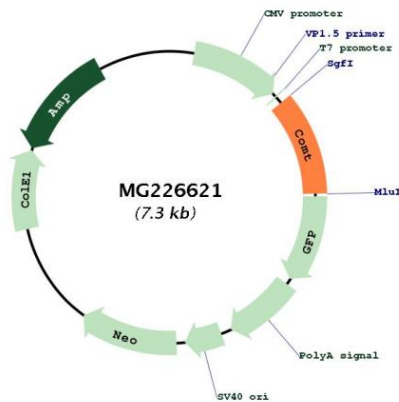
Locus ID: 12846

UniProt ID: [O88587](#)

Cytogenetics: 16 11.4 cM

Gene Summary: Catalyzes the O-methylation, and thereby the inactivation, of catecholamine neurotransmitters and catechol hormones. Also shortens the biological half-lives of certain neuroactive drugs, like L-DOPA, alpha-methyl DOPA and isoproterenol.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226621