

Product datasheet for **RR205966**

Comt (NM_012531) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Comt (NM_012531) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Comt
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205966 representing NM_012531 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCCGTTGGCTGCAGTCTCATTGGGTCTCCTGTTGTTGGCCCTCCTCCTGCTCTTGCACACCTGGGCT
GGGGCTTGGTGACTATTTCTGGTTTGAGTACGTGCTGCAGCCAGTCCACAACCTGATCATGGGTGACAC
AAAGGAGCAGCGCATCCTGCGCTACGTGCAGCAGAATGCAAAGCCTGGAGACCTCAGAGCGTCCTGGAG
GCCATCGACACCTACTGCACACAGAAGGAATGGGCCATGAATGTGGGTGACGCGAAAGGCCAAATCATGG
ATGCAGTGATTCCGGGAGTACAGCCCTCCTGGTCTGGAGCTGGGAGCTTACTGTGGCTACTCAGCAGT
GCGAATGGCTCGCCTGCTGCAGCCTGGAGCCAGGCTTCTCACCATGGAGATGAACCCTGACTACGCTGCC
ATCACCCAGCAAATGCTGAACTTTCAGGCCTACAGGACAAAGTCACCATCCTCAATGGGGCATCCCAGG
ATCTTATCCCCCAGCTGAAGAAGAAGTACGACGTGGACACACTAGACATGGTCTTTCTTGACCACTGGAA
AGACCGCTACCTCCAGACACACTTCTCCTGGAGAAATGTGGCCTGCTGCGCAAGGGGACAGTGTCTTA
GCTGACAAAGTATCGTCCCGGGAACCCCTGACTTCTGGCGTATGTGAGAGGGAGCAGCAGCTTCGAGT
GCACACACTACAGCTCATACCTGGAGTACATGAAAGTTGTAGACGGCTTGGAGAAGGCAATCTACCAGGG
TCCAAGTAGCCCTGACAAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205966 representing NM_012531
 Red=Cloning site Green=Tags(s)

MPLAAVSLGLLLLLLLLLRLHGLWGLVTFWFVEYVLQPVHNLIMGDTKEQRILRYVQQNAKPGDPQSVLE
 AIDTYCTQKEWAMNVGDAKGQIMDAVIREYSPSLVLELGAYCGYSAVRMARLLQPGARLLTMMNPDYAA
 ITQQLNFAGLQDKVTILNGASQDLIPQLKKKYDVTLDLVFLDHWKDRYLPDTLLLEKCGLLRKGTVLL
 ADNVIIVPGTPDFLAYVRGSSSFECTHYSSYLEYMKVVDGLEKAIYQGPSSPDKS

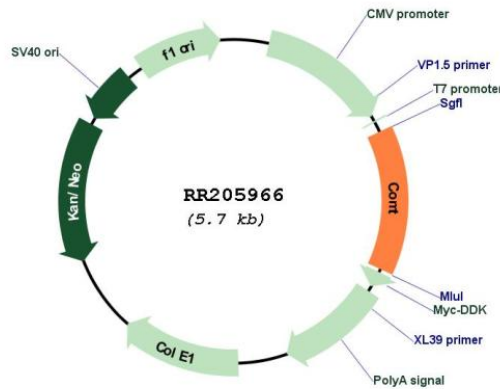
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012531

ORF Size: 792 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_012531.2 , NP_036663.1
RefSeq Size:	1669 bp
RefSeq ORF:	795 bp
Locus ID:	24267
UniProt ID:	P22734
Cytogenetics:	11q23
MW:	29.6 kDa
Gene Summary:	catalyzes the conversion of S-adenosyl-L-methionine and catechol to S-adenosyl-L-homocysteine and guaiacol [RGD, Feb 2006]