

Product datasheet for RC225368L3

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COMT (NM_001135161) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: COMT (NM_001135161) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: COMT

Synonyms: HEL-S-98n Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

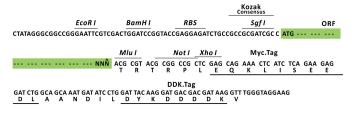
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC225368).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



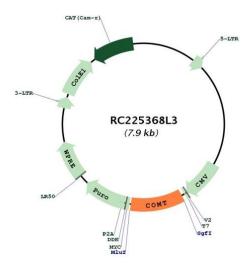


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001135161

ORF Size: 813 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: <u>NM 001135161.1, NP 001128633.1</u>

RefSeq Size: 2262 bp RefSeq ORF: 816 bp



COMT (NM_001135161) Human Tagged Lenti ORF Clone - RC225368L3

 Locus ID:
 1312

 UniProt ID:
 P21964

 Cytogenetics:
 22q11.21

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, Tyrosine metabolism

MW: 30 kDa

Gene Summary: Catechol-O-methyltransferase catalyzes the transfer of a methyl group from S-

adenosylmethionine to catecholamines, including the neurotransmitters dopamine,

epinephrine, and norepinephrine. This O-methylation results in one of the major degradative pathways of the catecholamine transmitters. In addition to its role in the metabolism of endogenous substances, COMT is important in the metabolism of catechol drugs used in the treatment of hypertension, asthma, and Parkinson disease. COMT is found in two forms in tissues, a soluble form (S-COMT) and a membrane-bound form (MB-COMT). The differences between S-COMT and MB-COMT reside within the N-termini. Several transcript variants are formed through the use of alternative translation initiation sites and promoters. [provided by

RefSeq, Sep 2008]