

Product datasheet for **RC231056**

CES3 (NM_001185176) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CES3 (NM_001185176) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CES3
Synonyms: ES31
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231056 representing NM_001185176
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCAGATGAGCCGGGAGGACATGCTGGCCATCTCAACACCCGTCTTGACCAGTCTGGATGTGCCCC
CTGAGATGATGCCACCGTCATAGATGAATACCTAGGAAGCAACTCGGACGCACAAGCCAAATGCCAGGC
GTTCCAGGAATTCATGGGTGACGTATTCATCAATGTTCCACCGTCAGTTTTTCAAGATACCTTCGAGAT
TCTGGAAGCCCTGTCTTTTCTATGAGTTCAGCATCGACCCAGTTCTTTTGCGAAGATCAAACCTGCCT
GGTGGAAGGCTGATCATGGGGCCGAGGGTGCTTTTGTGTTCCGGAGGTCCTTCTCATGGACGAGAGCTC
CCGCTGGCCTTTCAGAGGCCACAGAGGAGGAGAAGCAGCTAAGCCTCACCATGATGGCCAGTGGACC
CACTTTGCCCGGACAGGGGACCCCAATAGCAAGGCTCTGCCTCCTTGGCCCAATTAACCAGGCGGAAC
AATATCTGGAGATCAACCCAGTGCCACGGGCGGACAGAAGTTCAGGGAGGCTGGATGCAGTTCTGGTC
AGAGACGCTCCCCAGCAAGATACAACAGTGGCACCAGAAGCAGAAGAACAGGAAGGCCAGGAGGACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231056 representing NM_001185176
 Red=Cloning site Green=Tags(s)

MEQMSREDMLAISTPVLTSLDVPPPEMPTVIDEYLGNSDAQAKCQAFQEFMGDVFINVPTVSFSRYLRD
SGSPVFFYEFQHRPSSFAKIKPAWYKADHGAEGAFVFGGPFLLMDESSRLAFPEATEEEKQLSLTMMAQWT
HFARTGDPNSKALPPWPQFNQAEQYLEINPVPRAGQKFREAWMQFWSSETLPSKIQQWHQKQKNRKAQEDL

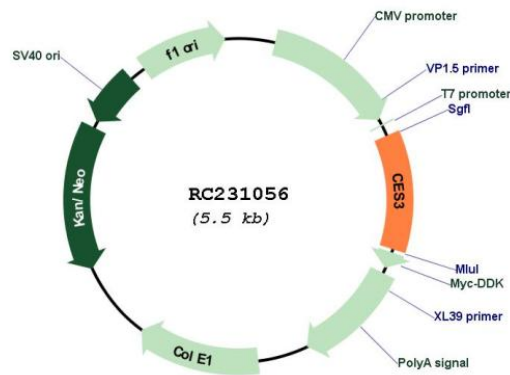
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001185176

ORF Size: 630 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_001185176.1](#), [NP_001172105.1](#)

RefSeq ORF: 633 bp

Locus ID: 23491

UniProt ID: [Q6UWW8](#)

Cytogenetics: 16q22.1

Protein Families: Druggable Genome

MW: 24.6 kDa

Gene Summary: This gene encodes a member of the carboxylesterase large family. The family members are responsible for the hydrolysis or transesterification of various xenobiotics, such as cocaine and heroin, and endogenous substrates with ester, thioester, or amide bonds. They may participate in fatty acyl and cholesterol ester metabolism, and may play a role in the blood-brain barrier system. This gene is expressed in several tissues, particularly in colon, trachea and in brain, and the protein participates in colon and neural drug metabolism. Multiple alternatively spliced transcript variants encoding distinct isoforms have been reported, but the biological validity and/or full-length nature of some variants have not been determined. [provided by RefSeq, Jun 2010]