

Product datasheet for **RC216384**

CES4A (NM_173815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CES4A (NM_173815) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CES4A
Synonyms:	CES6; CES8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC216384 representing NM_173815
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGTGGATTCTGTGCTGGAGCCTCACCTCTGCCTGATGGCGCAGACGGCCTTGGTGCCTTGACACA
 CCAAGAGGCCTCAAGTGGTCACCAAAATGGAACCTGCAAGGAAAACAGATGCATGTGGGGAAGACACC
 CATCCAAGTCTTTTTAGGAGTCCCTTCTCCAGACCTCCTCTAGGTATCCTCAGGTTTGACCTCCAGAA
 CCCCCGGAGCCCTGAAAAGGAATCAGAGATGCTACCACCTACCCGCCTGGGTGCCTGCAGGAGTCTGGG
 GCCAGCTGGCCTCGATGTACGTACGACACGCGGGAACGGTACAAGTGGCTGCGCTTCAGCGAGGACTGTCT
 GTACCTGAACGTGTACGCGCCGGCGCGCGCCCGGGGATCCCCAGCTGCCAGTGTGGTCTGGTCCCG
 GGAGGCGCCTTCATCGTGGGCGCTGCTTCTCGTACGAGGGCTCTGACTTGGCCGCCCGGAGAAAGTGG
 TGCTGGTGTTCGACGACAGGCTCGGCATCTTCGGCTTCTGAGCACGGACACGCCACGCGCGCGG
 GAACTGGGGGCTGCTGGACCAGATGGCGGCTCTGCGCTGGGTGCAGGAGAACATCGCAGCCTTCGGGGGA
 GACCCAGGAAATGTACCTGTTTCGGCCAGTCCGCGGGGCCATGAGCATCTCAGGACTGATGATGTCAC
 CCCTAGCCTCGGGTCTCTTCCATCGGGCCATTTCCAGAGTGGCACCCGCTTATTCAGACTTTTCATCAC
 TAGTAACCCACTGAAAGTGGCAAGAAGTTGCCACCTGGTGGATGCAACCACAACAGCACACAGATC
 CTGGTAAACTGCCTGAGGGCACTATCAGGGACCAAGGTGATGCGTGTGTCCAACAAGATGAGATTCCTCC
 AACTGAACTCCAGAGAGACCCGGAAGAGATTATCTGGTCCATGAGCCCTGTGGTGGATGGTGTGGTGT
 CCCAGATGACCTTTGGTCTCTGACCCAGGGGAAGGTTTCACTGTGCCCTACCTTCTAGGTGTCAAC
 AACCTGGAATTAATTGGCTCTTGCCTTATATCATGAAGTCCCCTAACCCGGCAGGCGATGAGAAAGG
 AAACCATCACTAAGATGCTCTGGAGTACCCGCACCCTGTTGAATATCACCAGGAGCAGTACCATTGT
 GGTGGAGGAGTACCTGGACAATGTCAATGAGCATGACTGGAAGATGCTACGAAACCGTATGATGGACATA
 GTTCAAGATGCCACTTTCGTGTATGCCACTGCAGACTGCTCACTACCACCGAGAAACCCCAATGATGG
 GAATCTGCCCTGCTGGCCACGCTACAACAAGGATGAAAAGTACCTGCAGCTGGATTTTACCACAAGAGTG
 GGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216384 representing NM_173815
 Red=Cloning site Green=Tags(s)

MRWILCWSLTLCLMAQTLGALHTKRPQVVTKYGTLLQKQMHVKGKTIQVFLGVPFSPPLGILRFAPPE
 PPEPWKIRDATTYPGCLQESWGQLASMYVSTRETRYKWLRFSEDCLYLNVYAPARAPGDPQLPVMVWFP
 GGAFIGVAASSYEGSDLAAREKVVLVFLQHLGIFGFLSTDDSHARGNWGLLDQMAALRWVQENIAAFGG
 DPGNVTLFGQSAGAMSISGLMMSPLASGLFHRAISQSGTALFRLFITSNPLKVAKKVAHLACGNHNSTQI
 LVNCLRALSGTKVMRVSNMRFQLNFQRDPEEIIWSMSPVVDGVVIPPDDPLVLLTQGKVSVPYLLGVN
 NLEFNWLLPYIMKFLNRQAMRKETITKMLWSTRLLNITKEQVPLVVEEYLDNVNEHDWMLRNRMMDI
 VQDATFVYATLQTAHYHRETPMMGICPAGHATTRMKSTCSWILPQEWA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8017_e07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_173815

ORF Size: 1404 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_173815.7](#)
RefSeq Size: 2135 bp

RefSeq ORF: 1407 bp

Locus ID: 283848

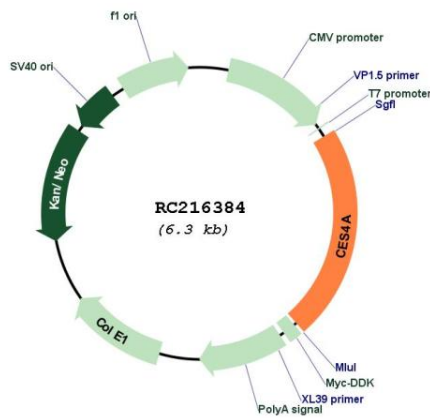
UniProt ID: [Q5XG92](#)
Cytogenetics: 16q22.1

Protein Families: Druggable Genome

MW: 55.3 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 also participate in fatty acyl and cholesterol ester metabolism, and may play a role in the blood-brain barrier system. This gene, also called CES6, encodes a secreted enzyme, and may play a role in the detoxification of drugs and xenobiotics in neural and other tissues of the body and in the cerebrospinal fluid. Multiple transcript variants encoding different isoforms have been reported, but the full-length nature and/or biological validity of some variants have not been determined. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RC216384