

Product datasheet for **RG231194**

CES4A (NM_001190202) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CES4A (NM_001190202) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CES4A
Synonyms:	CES6; CES8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231194 representing NM_001190202 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACGTGAGCAGCGGGAAACGGTACAAGTGGCTGCGCTTCAGCGAGGACTGTCTGTACCTGAACGTGT
ACGCGCCGGCGCGCGCCCGGGATCCCCAGCTGCCAGTGATGGTCTGGTTCCTCCGGGAGGCGCCTTCAT
CGTGGGCGCTGCTTCTTCGTACGAGGGCTCTGACTTGGCCGCCGAGAAAAGTGGTGTGGTGTCTG
CAGCACAGGCTCGGCATCTTCGGCTTCTGAGGTGGCGGGCCGACGGACGACGCCACGCGCGGGGA
ACTGGGGGCTGCTGGACCAGATGGCGGCTCTGCGCTGGGTGCAGGAGAACATCGCAGCCTTCGGGGGAGA
CCCAGGAAATGTACCCTGTTCCGCCAGTCGGCGGGGCCATGAGCATCTCAGGACTGATGATGTCACCC
CTAGCCTCGGGTCTCTTCCATCGGGCCATTTCCAGAGTGGCACCGGTTATTCAGACTTTTCATCACTA
GTAACCCACTGAAAGTGGCCAAGAAGGTTGCCACCTGGCTGGATGCAACCACAACAGCACAGATCCT
GGTAAACTGCCTGAGGGCACTATCAGGGACCAAGGTGATGCGTGTGTCCAACAAGATGAGATTCCTCAA
CTGAACTCCAGAGAGACCCGGAAGAGATTATCTGGTCCATGAGCCCTGTGGTGGATGGTGTGGTATCC
CAGATGACCCCTTGGTGTCTGACCCAGGGGAAGGTTTCATCTGTGCCCTACCTTCTAGGTGTCAACAA
CCTGGAATTCAATTGGCTCTTGCCTTATATCATGAAGTCCCCTAAACCGGCAGGCGATGAGAAAGGAA
ACCATCACTAAGATGCTCTGGAGTACCCGACCCTGTTGAATATCACAAGGAGCAGTACCCTTGTGG
TGGAGGATACCTGGACAATGTCAATGAGCATGACTGGAAGATGCTACGAAACCGTATGATGGACATAGT
TCAAGATGCCACTTTCGTGTATGCCACACTGCAGACTGCTCACTACCACCGAGAAACCCCAATGATGGGA
ATCTGCCCTGCTGGCCACGCTACAACAAGGATGAAAAGTACCTGCAGCTGGATTTTACCACAAGAGTGGG
CA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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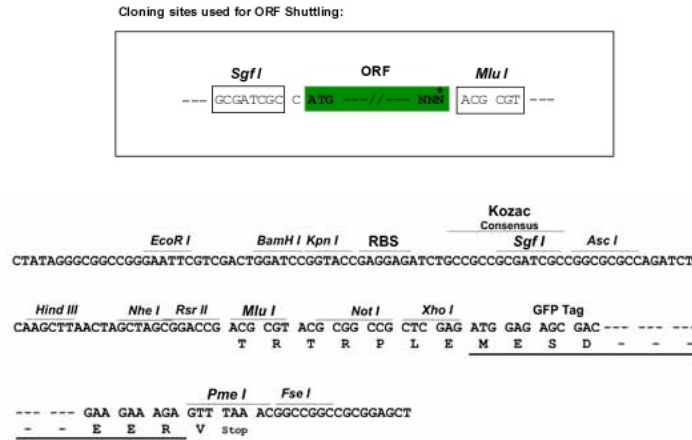
Protein Sequence: >RG231194 representing NM_001190202
 Red=Cloning site Green=Tags(s)

MYVSTRERYKWLRFSEDCLYLNVPAPARAPGDPQLPVMVWFPGGAFIVGAASSYEGSDLAAREKVVLVFL
 QHRLGIFGFLRWGRRTDDSHARGNWGLLDQMAALRWVQENIAAFGGDPGNVTLFGQSAGAMSI SGLMMSP
 LASGLFHRAISQSGTALFRLFITSNPLKVAKKVAHLAGCNHNSTQILVNCLRALSGTKVMRVS NKMRFLQ
 LNFQRDPEEIIWSMSPVVDGVVIPPDDL VLLTQGVSSVPYLLGVNNLEFNWLLPYIMKFPLNRQAMRKE
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 ICPAGHATTRMKSTCSWILPQEWA

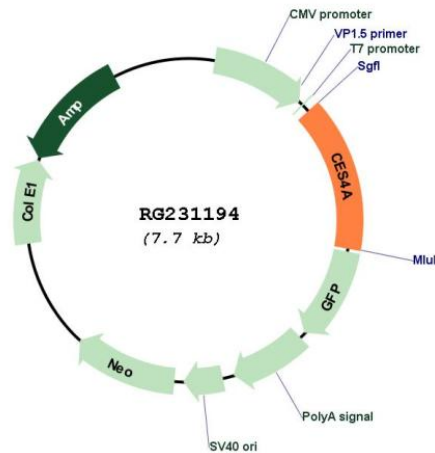
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001190202

ORF Size:	1122 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_001190202.2
RefSeq Size:	1981 bp
RefSeq ORF:	1125 bp
Locus ID:	283848
UniProt ID:	Q5XG92
Cytogenetics:	16q22.1
Protein Families:	Druggable Genome
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]