

Product datasheet for **SC125793**

CES3 (BC053670) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CES3 (BC053670) Human Untagged Clone
Tag:	Tag Free
Symbol:	CES3
Synonyms:	carboxylesterase 3; carboxylesterase 3 (brain); ES31; esterase 31; FLJ21736; liver carboxylesterase 31
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC053670 edited
GTGCTGAAGGGCAGGGATCTTATTCCACCTTCTGAAGCTTCTGTGCGAACCAGTTGTAAGG
AGAATGGAGAGAGCAGTGAGAGTGGAGTCCGGGGTCTGGTGGGGTGGTCTGTCTGCTC
CTGGCATGCCCTGCCACAGCCACTGGGCCCGAAGTTGCTCAGCCTGAAGTAGACACCACC
CTGGGTGCTGTGCGAGGCCGGCAGGTGGGCGTGAAGGGCACAGACCGCCTTGTGAATGTC
TTTCTGGGCATTCCATTTGCCAGCCGCACTGGGCCCTGACCGGTTCTCAGCCCCACAC
CCAGCACAGCCCTGGGAGGGTGTGCGGGATGCCAGCACTGCGCCCCCAATGTGCCTACAA
GACGTGGAGAGCATGAACAGCAGCAGATTGTCTCAACGGAACAGCAGATCTTCTCC
GTTTCAGAGGACTGCCTGGTCTCAACGCTATAGCCCAGCTGAGGTCCCCGAGGGTCC
GGTAGGCCGGTCAATGGTATGGGTCCATGGAGGCGCTGTATAACTGGCGTGCCACCTCC
TACGATGGATCAGCTCTGGCTGCCTATGGGGATGTGGTGTGGTTACAGTCCAGTACCGC
CTTGGGGTCTTGGCTTCTTTCAGCACTGGAGATGAGCATGCACCTGGCAACCAGGGCTTC
CTAGATGTGGTAGCTGCTTTCGCTGGGTGCAAGAAAACATCGCCCCCTTCGGGGGTGAC
CTCAACTGTGTCAGTGTCTTGGTGGATCTGCCGGTGGGAGCATCATCTCTGGCCTGGTC
CTGTCCCCAGTGGCTGCAGGGCTGTTCCACAGAGCCATCACACAGAGTGGGGTCACTACC
ACCCCAGGGATCATCGACTCTCACCTTGGCCCCTAGCTCAGAAAATCGCAAACACCTTG
GCCTGCAGCTCCAGCTCCCCGGCTGAGATGGTGCAGTGCCTTCAGCAGAAAAGAAGGAGAA
GAGCTGGTCTTAGCAAGAAGCTGAAAAATACTATCTATCCTCTCACCGTTGATGGCACT
GTCTTCCCCAAAAGCCCCAAGGAACCTCCTGAAGGAGAAGCCCTTCCACTCTGTGCCCTTC
CTCATGGGTGTCAACAACCATGAGTTACAGTGGCTCATCCCCAGGGGCTGGGGTCTCCTG
GATACAATGGAGCAGATGAGCCGGGAGGACATGCTGGCCATCTCAACACCCGTCTTGACC
AGTCTGGATGTGCCCCCTGAGATGATGCCACCGTCATAGATGAATACCTAGGAAGCAAC
TCGGAGCACAAGCCAAATGCCAGGCGTCCAGGAATTCATGGGTGACGTATTCATCAAT
GTTCCCACCGTCAGTTTTTCAAGATACCTTCGAGATTCTGGAAGCCCTGTCTTTTTCTAT
GAGTTCAGCATCGACCCAGTCTTTTTGCGAAGATCAAACCTGCCTGGGTGAAGGCTGAT
CATGGGGCCGAGGGTGTCTTTGTGTTTCGGAGGTCCCTTCTCATGGACGAGAGCTCCCGC
CTGGAGGCCACAGAGGAGGAGAAGCAGCTAAGCCTCACCATGATGGCCCAGTGGACCCAC
TTTGCCCCGACAGGGGACCCCAATAGCAAGGCTCTGCCTCCTTGGCCCCAATTAACCAG
GCGGAACAATATCTGGAGATCAACCCAGTGCACGGGCCGGACAGAAGTTCAGGGAGGCC
TGGATGCAGTTCTGGTCAAGACGCTCCCAGCAAGATAACAAGTGGCACCAGAAGCAG
AAGAACAGGAAGGCCAGGAGGACCTCTGAGGCCAGGCCTGAACCTTCTTGGCTGGGGCA
AACCACTCTTCAAGTGGTGGCAGAGTCCCAGCACGGCAGCCGCCTCTCCCCCTGCTGAG
ACTTTAATCTCCACCAGCCCTTAAAGTGTGCGCCGCTCTGTGACTGGAGTTATGCTCTTT
TGAAATGTCAAAAGGCCCTCCCACCTCTGGGGCATTGTACAAGTTCTTCCCTCTCCCT
GAAGTGCCTTTCTGCTTTCTTTCGTGGTAGGTTCTAGCACATTCTCTAGCTTCTGGAG
GACTACTCCCCAGGAAGCCTTCCCTGCCTTCTCTGGGCTGTGCGGCCCCGAGTCTGCG
TCCATTAGAGCACAGTCCACCCGAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC053670 unedited NGGGGTCAGAATTTGTATACGACTCATATAGGCGGCCGCGNATTCAGATCTGGTACCGGN TCCGGATTCCCGGGATATCGTCGACCCACGCGTCCGCCACGCGTCCGCCACGCGTCCG GTGCTGAAGGGCAGGGATCTTATCCACCTTCTGAAGCTTCTGTGCAACCAGTTGTAAGG AGAATGGAGAGACAGTGAAGTGGAGTCCGGGGTCTGGTCCGGGTGGTCTGTCTGCTC CTGGCATGCCCTGCCACAGCCACTGGGCCGAAGTTGCTCAGCCTGAAGTAGACACCACC CTGGGTCGTGTGCGAGGCCGCGCAGGTGGGCGTGAAGGGCACAGACCCTTGTGAATGTC TTTCTGGGCATTCCATTTGCCAGCCGCGACTGGGCCCTGACCGTTCTCAGCCCCACAC CCAGCACAGCCCTGGGAGGGTGTGCGGGATGCCAGCACTGCGCCCCAATGTGCCTACAA GACGTGGAGAGCATGAACAGCAGCAGATTTGCTCCTCAACGAAAAACAGCAGATCTTCTCC GTTTCAGAGGACTGCCTGGTCTCAACGTCTATAGCCAGCTGAGGTCCCGCAGGGTCC GGTAGGCCGGTATGGTATGGGTCCATGGAGGCGCTCTGATAACTGGCGTGCCACCTCC TACGATGGATCAGCTCTGGTGCCTATGGGGATGTGGTCTGGTTACAGTCCAGTACCGC CTTGGGGTCTTGGCTTCTCAGCACTGGAGATGAGCATGCACCTGGCAACCAGGGCTTC CTAGATGTGGTAGCTGCTTTCGCGTGGGTGCAAGAAACATCGCCCTTCGGGGTGACCT CAACTGTGTCACTGTCTTGGTGGATCTGCCGGTGGGAGCATCATCTCT
Restriction Sites:	NotI-NotI
ACCN:	BC053670
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC053670.1 , AAH53670.1
RefSeq Size:	2139 bp
Locus ID:	23491
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 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]