

## Product datasheet for **SC310219**

### **CES2 (NM\_198061) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CES2 (NM_198061) Human Untagged Clone
Tag:	Tag Free
Symbol:	CES2
Synonyms:	CE-2; CES2A1; iCE; PCE-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC310219 representing NM\_198061.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTGCTCAGTCCCGCTCTCTACCACACCCACCTTTCCCGGCCAAGCCAGCGCACCCCGCTGACT
CCCTGCCAGTCCAACCTCCAAGGCTGGCAAGGCACTGATCCACTGCTGGACAGACCCGGGGCAGCCT
CTGGGTGAACAGCAGCGTGTCCGCCGGCAGCGAACCGAGACCAGCGAGCCGACCATGCGGCTGCACAGA
CTTCGTGCGCGGCTGAGCGCGGTGGCTGTGGGCTTCTGCTGCTTCTGTCCGGGCCAGGGCCAGGAC
TCAGCCAGTCCCATCCGGACCACACACCGGGCAGGTGCTGGGGAGTCTTGCCATGTGAAGGGCGCC
AATGCCGGGTCCAACCTTCTGGGAATTCATTTGCCAAGCCACCTCTAGGTCGCTGCGATTGCA
CCCCCTGAGCCCCCTGAATCTTGGAGTGGTGTGAGGGATGGAACCACCCATCCGGCCATGTGTCTACAG
GACCTCACCGCAGTGGAGTCAGAGTTTCTTAGCCAGTTCAACATGACCTTCCCTCCGACTCCATGTCT
GAGGACTGCCTGTACCTCAGCATCTACACGCCGCCCATAGCCATGAAGGCTCTAACCTGCCGGTGTG
GTGTGGATCCACGGTGGTGGCTGTTTTTGGCATGGCTTCTTGTATGATGGTTCCATGCTGGCTGCC
TTGGAGAACGTGGTGGTGGTTCATCATCCAGTACCGCCTGGGTGTCTGGGCTTCTCAGCACTGGAGAC
AAGCACGCAACCGGCAACTGGGGCTACCTGGACCAAGTGCTGCACTACGCTGGGTCCAGAGAATATC
GCCCACTTTGGAGGCAACCCTGACCGTGTACCATTTTTGGCGAGTCTGCGGGTGGCACGAGTGTGTCT
TCGCTTGTGTGTCCTCCATATCCCAAGGACTCTCCACGGAGCCATCATGGAGAGTGGCGTGGCCCTC
CTGCCCCGCCCTATTGCCAGTCTCAGTGTGTCATCTCCACGGTGGTGGCAACCTGTCTGCCTGTGAC
CAAGTTGACTCTGAGGCCCTGGTGGCTGCCTGCGGGCAAGAGTAAAGAGGAGATTCTTGCAATTAAC
AAGCCTTTCAAGATGATCCCGGAGTGGTGGATGGGGTCTTCTGCCAGCACCCCAAGGAGCTGCTG
GCCTCTGCCGACTTTCAGCCTGTCCCTAGCATTGTTGGTGTCAACAACAATGAATTCGGCTGGCTCATC
CCCAAGGTCATGAGGATCTATGATACCCAGAAGGAAATGGACAGAGAGGCCCTCCAGGCTGCTGCAG
AAAATGTTAACGCTGCTGATGTTGCCTCTACATTTGGTGACCTGCTGAGGGAGGAGTACATTGGGGAC
AATGGGGATCCCCAGACCCTCCAAGCGCAGTTCAGGAGATGATGGCGGACTCCATGTTTGTGATCCCT
GCACTCCAAGTAGCACATTTTCAAGTGTCCCGGGCCCTGTGACTTCTACGAGTTCAGCATCAGCCC
AGCTGGCTCAAGAACATCAGGCCACCGCACATGAAGGCAGACCATGTTAAATTCAGTGGGAAGAGGAG
CAGCTAAGCAGGAAGATGATGAAGTACTGGCCAACTTTGCGAGAAATGGGAACCCCAATGGCGAGGGT
CTGCCACTGGCCGCTGTTGACCAGGAGGAGCAATACCTGCAGCTGAACCTACAGCCTGCGGTGGGC
CGGGCTCTGAAGGCCACAGGCTCCAGTCTGGAAGAAGCGCTGCCCAAAAGATCCAGGAGCTCGAG
GAGCCTGAAGAGAGACACACAGAGCTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

**Restriction Sites:** Sgfl-Mlul

**Plasmid Map:** □

**ACCN:** NM\_198061

**Insert Size:** 1824 bp

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_198061.2</a>
<b>RefSeq Size:</b>	3907 bp
<b>RefSeq ORF:</b>	1824 bp
<b>Locus ID:</b>	8824
<b>UniProt ID:</b>	<a href="#">O00748</a>
<b>Cytogenetics:</b>	16q22.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Drug metabolism - other enzymes
<b>MW:</b>	67.1 kDa
<b>Gene Summary:</b>	<p>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. The protein encoded by this gene is the major intestinal enzyme and functions in intestine drug clearance. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Oct 2010]</p> <p>Transcript Variant: This variant (2) has a shorter 5' UTR and lacks an internal in-frame segment in the coding region, as compared to variant 1. The encoded isoform (2) is thus shorter than isoform 1. CCDS Note: The coding region has been updated to shorten the N-terminus to one that is more supported by available conservation data.</p>