

## Product datasheet for **RG222209**

### **CES3 (NM\_024922) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CES3 (NM_024922) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CES3
Synonyms:	ES31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG222209 representing NM\_024922  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGAGAGCAGTGAGAGTGGAGTCCGGGGTCTGGTCGGGGTGGTCTGTCTGCTCCTGGCATGCCTG  
 CCACAGCCACTGGGCCCGAAGTTGCTCAGCCTGAAGTAGACACCACCCTGGGTCGTGCGAGGCCGGCA  
 GGTGGGCGTGAAGGGCACAGACCGCCTTGTGAATGCTTTCTGGGCATTCCATTTGCCACGCCGCACTG  
 GGCCCTGACCGGTTCTCAGCCCCACACCAGCACAGCCCTGGGAGGGTGTGCGGGATGCCAGCACTGCGC  
 CCCCATGTGCCTACAAGACGTGGAGAGCATGAACAGCAGCAGATTTGCTCCTCAACGGAAAAACAGCAGAT  
 CTTCTCCGTTTTCAGAGGACTGCCTGGTCTCAACGTCTATAGCCAGCTGAGGTCCCCGAGGGTCCGGT  
 AGGCCGGTTCATGGTATGGGTCCATGGAGGCGCTCTGATAACTGGCGTCCACCTCTACGATGGATCAG  
 CTCTGGCTGCCTATGGGATGTGGTCTGTGGTTACAGTCCAGTACCGCCTGGGGTCTTGGCTTCTTCAG  
 CACTGGAGATGAGCATGCACCTGGCAACCAGGGCTTCTAGATGTGGTAGCTGCTTTCGCGTGGGTGCAA  
 GAAAACATCGCCCCCTTCGGGGGTGACCTCAACTGTGCTACTGTCTTTGGTGGATCTGCCGTGGGAGCA  
 TCATCTCTGGCCTGGTCTGTCCCCAGTGGCTGCAGGGCTGTTCCACAGAGCCATCACACAGAGTGGGGT  
 CATCACCACCCAGGGATCATCGACTCTCACCTTGGCCCTAGCTCAGAAAATCGCAAACCTTGGCC  
 TGCAGTCCAGCTCCCCGGCTGAGATGGTGCAGTGCCTTCAGCAGAAAAGAAGGAGAAGAGCTGGTCTTA  
 GCAAGAAGCTGAAAAATACTATCTATCTCTCACCGTTGATGGCACTGTCTTCCCCAAAAGCCCCAAGGA  
 ACTCCTGAAGGAGAAGCCCTTCCACTCTGTGCCCTTCTCATGGGTGTCAACAACCATGAGTTACAGTGG  
 CTCATCCCCAGGGGCTGGGGTCTCTGGATAACAATGGAGCAGATGAGCCGGGAGGACATGCTGGCCATCT  
 CAACACCGTCTTGACCAGTCTGGATGTGCCCTGAGATGATGCCACCCTCATAGATGAATACCTAGG  
 AAGCAACTCGGACGCACAAGCCAAATGCCAGGCTTCCAGGAATTCATGGGTGACGTATTATCAATGTT  
 CCCACCGTCAGTTTTTCAAGATACCTTCGAGATTCTGGAAGCCCTGTCTTTTCTATGAGTTCAGCATC  
 GACCCAGTTCTTTTGCGAAGATCAAACCTGCCTGGGTGAAGGCTGATCATGGGGCCGAGGGTGTCTTTGT  
 GTTCGGAGGTCCCTTCTCATGGACGAGAGCTCCCGCCTGGCCTTCCAGAGGCCACAGAGGAGGAGAAG  
 CAGCTAAGCCTCACCATGATGGCCAGTGGACCACTTTCGCCGGACAGGGGACCCCAATAGCAAGGCTC  
 TGCTCCTTGGCCCAATTCAACCAGGCGGAACAATATCTGGAGATCAACCCAGTCCACGGGCCGGACA  
 GAAGTTCAGGGAGGCTGGATGCAGTTCTGGTCAGAGACGCTCCCAGCAAGATAACAACAGTGGCACCAG  
 AAGCAGAAGAACAGGAAGGCCAGGAGGACCTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG222209 representing NM\_024922  
 Red=Cloning site Green=Tags(s)

MERAVRVESGVLVGVVCLLLACPATATGPEVAQPEVDTTLGRVGRQVGVKGTDRDLVNVFLGIPFAQPPL  
 GPDRFSAPHPAQPEGVRDASTAPPMCLQDVESMNSSRFVLNGKQQIFSVSEDLVNLVYSPAIEVPAGSG  
 RPVMVWHGGALITGAATSYDGSALAAAGYDVVVVTVQYRLGVLGFFSTGDEHAPGNQGFLDVVAALRWQ  
 ENIAPFGDLNLCVTVFGGSAGSIIISGLVLSVAAGLFHRAITQSGVITTPGIIDSHPWPLAQKIANTLA  
 CSSSSPAEMVQCLQQKEGEEELVLSKLLKNTIYPLTVDGTVFVKSPKELLKEKPFHVPFLMGVNNHEFSW  
 LIPRGWLLDTMEQMSREDMLAISTPVL TSLDVPEMPTVIDEYLSNSDAQAKQAFQEFMGDVFINV  
 PTVSFSRYLRDSSGSPVFFYEFQHRPSSFAKIKPAWVKADHGAEGAFVFGGPF LMDESSRLAFPEATEEEK  
 QLSLTMAAQWTHFARTGDPNSKALPPWPQFNQAEQYLEINPVPRAGQKFRFAWMQFWSSETLPSKIQQWHQ  
 KQKNRKAQEDL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_024922.6</a>
<b>RefSeq Size:</b>	3906 bp
<b>RefSeq ORF:</b>	1716 bp
<b>Locus ID:</b>	23491
<b>UniProt ID:</b>	<a href="#">Q6UWW8</a>
<b>Cytogenetics:</b>	16q22.1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]