

Product datasheet for **SC325207**

Carboxylesterase 7 (CES5A) (NM_001143685) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Carboxylesterase 7 (CES5A) (NM_001143685) Human Untagged Clone
Tag: Tag Free
Symbol: CES5A
Synonyms: CAUXIN; CES4C1; CES5; CES7; HEL126
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001143685, the custom clone sequence may differ by one or more nucleotides

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ATGAGTGGGAATTGGGTGCACCCAGGCCAGATCCTAATTTGGGCTATCTGGGTCCTTGCA
GCCCCACCAAAGGGCCTTCTGCTGAAGGGCCACAGAGGAACACCAGGCTGGGATGGATT
CAGGGCAAGCAAGTCACTGTGCTGGGAAGCCCTGTGCCTGTGAACGTGTTCTCGGAGTC
CCCTTTGCTGCTCCCCGCTGGGATCCCTGCGATTTACGAACCCGCAGCCTGCATCGCCC
TGGGATAACTTGGGAGAAGCCACCTCCTACCCTAATTTGTGCCTCCAGAACTCAGAGTGG
CTGCTCTTAGATCAACATATGCTCAAGGTGCATTACCCGAAATTCGGAGTGCAGAAGAC
TGCTCTACCTGAACATCTATGCGCCTGCCACGCGGATACAGGCTCCAAGCTCCCCGTC
TTGGTGTGGTTCCAGGAGGTGCCTTCAAGACTGGCTCAGCCTCCATCTTTGATGGGTCC
GCCCTGGTGCCTATGAGGACGTGCTGGTTGTGGTTCGTCACGACCCGGCTAGGAATATTT
GGTTTCTTACCACATGGGATCAGCATGCTCCGGGAACTGGGCCTTCAAGGACCAGGTG
GCTGCTGTGCTGGGTCCAGAAGAATCGAGTTCCTCGGTGGGGACCCAGCTCTGTG
ACCATCTTTGGCGAGTCCGCGGGAGCCATAAGTGTTCCTAGTCTTATACTGTCTCCCATG
GCCAAAGGCTTATCCACAAAGCCATCATGGAGAGTGGGTGGCCATCATCCCTACCTG
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AATGCGTCAGACTCTGAGGCCCTGCTGAGGTGCCTGAGGACAAAACCCCTCAAGGAGCTG
CTGACCCTCAGCCAGAAAACAAAGTCTTCACTCGAGTGGTTGATGGTGCCTTTCTTCTCT
AATGAGCCTCTAGATCTATTGTCTCAGAAAGCATTAAAGCAATTCCTTCCATCATCGGA
GTCAATAACCACGAGTGTGGCTTCTGCTGCCTATGAAGGAGGCTCCTGAGATCCTCAGT
GGCTCCAACAAGTCCCTTGCCCTCCATCTGATACAAAACATCCTGCACATCCCGCCTCAG
TATTTGCACCTTGTGGCTAATGAATACTTCCATGACAAGCACTCCCTGACTGAAATCCGA
GACAGTCTTCTGGACTTGTGGAGATGTGTTCTTTGGTCCCTGCACTGATCACAGCT
CGATATCACAGAGATGCTGGTGCACCTGTCTACTTCTATGAGTTTCGGCACCGGCCTCAG
TGCTTTGAAGACACGAAGCCAGCTTTTGTCAAAGCCGACCACGCTGATGAAGTCCGCTTT
GTGTTTCGGTGGTGCCTTCTGAAGGGGGACATTGTTATGTTTCAAGGAGCCACGGAGGAG
GAGAAGTTACTGAGCCGGAAGATGATGAAATACTGGGCTACCTTTGCTCGAACCGGAAT
CCTAATGGGAACGACCTGTCTCTGTGGCCAGCTTATAATCTGACTGAGCAGTACCTCCAG
CTGGACTTGAACATGAGCCTCGGACAGAGACTCAAAGAACCGGGTGGATTTTTGGACC
AGCACCATCCCCCTGATCCTGTCTGCCTCCGACATGCTCCACAGTCTCTTTCTTCTCTTA
ACTTCTCTCTCTCCTCCAGCCTTTCTTTTCTTTTGTGCTCTCT

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Restriction Sites:	Please inquire
ACCN:	NM_001143685
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.
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:	<u>NM_001143685.1</u> , <u>NP_001137157.1</u>
RefSeq Size:	2285 bp
RefSeq ORF:	1728 bp
Locus ID:	221223
UniProt ID:	<u>Q6NT32</u>
Cytogenetics:	16q12.2
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - other enzymes

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 CES5, is predominantly expressed in peripheral tissues, including brain, kidney, lung and testis. It encodes a secreted enzyme. Because of high levels in the urine of male domestic cats, this enzyme is also called cauxin (carboxylesterase-like urinary excreted protein). The enzyme functions in regulating the production of a pheromone precursor and may contribute to lipid and cholesterol transfer processes within male reproductive fluids. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]

Transcript Variant: This variant (1) has an alternate 5' sequence, as compared to variant 3. The resulting isoform (1) is shorter and has a different N-terminus, as compared to isoform 3.