

Product datasheet for SC120612

CMBL (NM_138809) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CMBL (NM_138809) Human Untagged Clone
Tag:	Tag Free
Symbol:	CMBL
Synonyms:	JS-1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC120612 sequence for NM_138809 edited (data generated by NextGen Sequencing) ATGGCTAACGAAGCTTATCCTTGTCCGTGTGACATTGGCCACAGACTTGAGTATGGAGGG CTAGGCCGTGAAGTTCAAGTCGAGCACATCAAGGCTTATGTCACCAAATCCCCGTTGAT GCAGGCAAAGCTGTGATTGTCATTCAAGATATATTTGGCTGGCAGTTGCCCAATACCAGA TATATAGCTGACATGATCTCAGGAAATGGATACACAACCATTGTTCCAGACTTCTTTGTA GGGCAAGAGCCTTGGGACCCCTCTGGCGACTGGTCTATCTTCCCTGAGTGGCTGAAAACA AGAAATGCCCAGAAGATCGATAGAGAGATCAGTGCTATCTTGAAGTATCTGAAACAACAG TGTCATGCCCAGAAAATTGGCATCGTGGGATTCTGCTGGGGTGGAACTGCTGTCCATCAT TTGATGATGAAATACTCAGAATTCAGGGCAGGGGTGTCCGTCTATGGCATCGTCAAGGAT TCTGAAGACATTTACAATTTAAAGAACCCCACTTTGTTCAATTTTTGCTGAAAATGATGTT GTGATTCACACTCAAGGACGTATCTTTGCTGACTCAGAAGTTGAAAGAACACTGCAAAGTT GAATATCAAATTTAAACATTTTCTGGGCAGACTCATGGGTTTCGTGCATCGGAAGAGAGAA GATTGCTCACCTGCAGACAAGCCCTACATTGACGAGGCCAGAAGGAATTTAATTGAGTGG CTGAACAAGTACATGTAG Clone variation with respect to NM_138809.3 471 t=>c



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5' Read Nucleotide Sequence: >OriGene 5' read for NM_138809 unedited
 GCATTTTGTAAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGGCCGCGTCCA
 CGTCCCTCTCGCGTCCCCGCCGGCCACGCCGCTCTCTGGGTTTCGGCTCCGCGCG
 GTGCAGCGCAGTCTCAGGCCGCGGGACAAGCCGACTTAAATCTCTGCAATGGCTAACGA
 AGTTATCCTTGTCCGTGTGACATTGGCCACAGACTTGAGTATGGAGGGCTAGGCCGTGA
 AGTTCAAGTCGAGCACATCAAGGCTTATGTCACCAAATCCCCGTTGATGCAGGCAAAGC
 TGTGATTGTCATTCAAGATATATTTGGCTGGCAGTTGCCAATACCAGATATATAGCTGA
 CATGATCTCAGGAAATGGATACACAACCAATTGTTCCAGACTTCTTTGTAGGGCAAGAGCC
 TTGGGACCCCTCTGGCGACTGGTCTATCTTCCCTGAGTGGCTGAAAACAAGAAATGCCCA
 GAAGATCGATAGAGAGATCAGTGTCTTGAAGTATCTGAAACAACAGTGTGATGCCCA
 GAAATTTGGCATCGTGGGATTCTGCTGGGGTGGAACTGCTGTCCATCATTTGATGATGAA
 ATACTCAGAAATCAGGGCAGNGGTGTCCGTCTATGGCATCGTCAAGGATTCTGAAGACA
 TTTACAATTTAAGAACCCCACTTTGTTCAATTTTGTGAAAATGATGTTGTGATTCCAC
 TCAAGGACGTATCTTTGCTGACTCAGAAGTTGAAAGAACACTNGCAAGTTGAATATCAA
 TTTAAAACATTTTCTGGGCAGACTCATGGGGTTCGTGCATCGGAAGAGAGAAGATTGCTCA
 CCTGCAGACAAGCCCTACATTGACGAGGCCAGAAGGAATTNAATTGAGTGGCTGAACAAG
 TACATGTAGCAAGAATCAGGGGCAGCCCTTCTAGNATAGCTTTTCATNCCAAAATTGCTGG
 NAATAGNTAGATCATTTNGATTAATTTAACCTTATAAAAAATAGTGTAGGATN

3' Read Nucleotide Sequence: >OriGene 3' read for NM_138809 unedited
 NGGTTTTATCTATGNACGCGCCGATTCTANGATCGGTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTGGGGTTTTTTTTAAAAATCAAAAAATAGTTA
 TTAGCTTAATATAATTAGGGCAATGGGAATCCCGTTTTGATCCCAATACTTCCCATATTG
 GAATATAAAATGGGACAAATCCCTGTTTTGGGGCATAAATAAATGGCTAAACCGGGC
 AATTAGGCGACCCGTTATAGTTCAAGGTCTTCAAGGTTTGCAACATTTGGCACTTTTT
 ATGAAGGGGTCAAAAACCAAAAAGGCCCACTTGACCTGGCAACTGGGCCTGAACAAC
 TGGAGTTTTTTTTTTTTGAAAAAAATCTCCCTCTGTTGTCCAAGCTCGGAGTGAATA
 ACCCAACCCGACTCACTGGAACCCCTGGCCCCAAGTTCAAAGGATTCTCCCCCAAAAC
 CCCCGAATAGCTGGGATTACAGGGCCATGCCCCCTGCCCGGGGATTTTATATTTTTTA
 AGAAAAAGGGGTTTACCATGTTGGCCAAGCCGGGCTTGAACCCCTGACCCCAAGTGGT
 CCACCCACCTCGGCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCACCCGGGCC
 GGAGGGTTTAACCAATAATTAGGGGATTACCCTATCATTCCCTATCATTCAAATTTCTCA
 AGGACCGACCCGGGTTAAATTTAATTAATTAATTTAACCTAATTAATTTTGAACA
 AGGGCTTAACTCGGTTGCCCAAGCTAAATACAATAAGGGGGCCAATCCTGGGGTCCCTGG
 AGTCTCCACCCCGGGTCTATTGAATTCCTGGGCCCTCACCCCCCAAA

Restriction Sites: NotI-NotI
ACCN: NM_138809
Insert Size: 2250 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

RefSeq: [NM_138809.2](#), [NP_620164.1](#)

RefSeq Size: 2156 bp

RefSeq ORF: 738 bp

Locus ID: 134147

UniProt ID: [Q96DG6](#)

Domains: DLH

Protein Pathways: Metabolic pathways

Gene Summary: CMBL (EC 3.1.1.45) is a cysteine hydrolase of the dienelactone hydrolase family that is highly expressed in liver cytosol. CMBL preferentially cleaves cyclic esters, and it activates medoxomil-ester prodrugs in which the medoxomil moiety is linked to an oxygen atom (Ishizuka et al., 2010 [PubMed 20177059]).[supplied by OMIM, Apr 2010]