

Product datasheet for SC119078

CAMLG (NM_001745) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMLG (NM_001745) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAMLG
Synonyms:	CAML; GET2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119078 sequence for NM_001745 edited (data generated by NextGen Sequencing)

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ATGGAGTCGATGGCCGTCGCTACCGACGCGGGGAGAGGCCGGGGTCCCAGCGGGCTCA
GGTCTGTCGGCTTCCCAGCGTCGGGCGGAGCTGCGTCGGAGAAAGCTGCTCATGAACTCG
GAACAGCGCATCAACCGGATCATGGGCTTTCACAGGCCCGGGAGCGCGGGAAGAAGAA
AGTCAAACAAAATCAAAGCAGCAGGACAGTGATAAACTGAACTCCCTCAGCGTTCCTTCC
GTTTCAAAGCGAGTAGTGCTGGGTGATTCAGTCAGTACAGGAACAACGACCAGCAGGGT
GGTGTGGCCGAGGTAAAGGGGACCCAACGAGGAGACAAATTGGACTCGTTCATTAACCA
CCTGAGTGCAGTAGTGATGTCAACCTTGAGCTCCGGCAGCGGAACAGAGGGGACCTGACA
GCGGACTCGGTCCAGAGGGGTTCCCGCCATGGCCTAGAGCAGTACCTTCCAGATTCGAA
GAAGCAATGAAGCTAAGGAAACAGCTGATTAGTAAAAACCCAGTCAAGAGGATGGAAT
ACAACAGAAGAATTTGACTCTTTTCGAATATTTAGATTGGTGGGATGTGCTCTTCTTGCT
CTTGGAGTCAGAGCTTTTGTGCAAACTTTGTCCATATTTGCTCCATTTCTTACTTTA
CAACTTGGCTACATGGGATTATACAAAATATTTCCCAAGAGTGAAAAGAAGATAAAGACA
ACAGTACTAACAGCTGCACTTCTATTGTCCGGAATTCCTGCCAAGTGATAAATCGATCA
ATGGATACCTATAGCAAATGGGCGAAGCTTTCACAGATCTCTGTGTCTACTTTTCACT
TTTATCTTTTGCATGAACGCTTGATTATTGGGGCTCTGAAGTACCATGA

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Clone variation with respect to NM_001745.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001745 unedited GGGTGGATTTGAAACCGACTTCCATAGGGCGGCCGCGCATTCCGGCAGAGGGCCACTGT TCTCCCTCCCANACTGTGGACGGGAGGCTGGAGTCGATGGCCGTCGCTACCGACGGCGG GGAGAGGCCGGGGTCCCAGCGGGCTCAGGTCTGTCCGCTTCCAGCGTCGGGCGGAGCT GCGTCGGAGAAAGCTGCTCATGAACTCGTTTCTGTGTATCAACCGGATCATGGGCTTTCA CAGGCCCGGGAGCGCGCGGAAGAAGAAAGTCAAACAAAATCAAAGCAGCAGGGACAGTG ATAAACTGAACTCCCTCAGCGTTCCTTCCGTTTCAAAGCGAGTAGTGCTGGGTGATTCAC TCAGTACAGGAACAACCTGACCAGCAGGGTGGTGTGGCCGAGGTAAGGGGACCCAACCTGG GAGACAAATTGGACTCGTTCATTAACCACCTGAGTGCAGTAGTGATGTCAACCTTGAGC TCCGGCAGCGGAACAGAGGGGACCTGACAGCGGACTCGGTCCAGAGGGGTCCCGCCATG GCCTAGAGCAGTACCTTCCAGATTCGAAGAAGCAATGAAGCTAAGGAAACAGCTGATTA GTGAAAAACCCACTCAGAGGATGGAATAACAACAGAAGAATTTGACTCTTTTCGAATAT TTAGATTGGTGGGATGTGCCTCTNTTGTCTTGGAGTCAGAGCTTTTGTGGCAATAC CTGCCATATTTGCTCCATTTCTACTTCCACTTGCGCACATGGGAATATACAAAATT TTCCCGGAGCCGAAAGGACATTAAGACCACCGTCTAACCCTGCCCTTCTATTGCCGG GAATCCCTGCCCAATGATAAACCGCCATGGATACCTATCGCAAAGGGCGAAGCTCC CAGACCTCTGGGTCTCCTTTCCCTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001745 unedited TAAATCCCTCGTTTGACTTCATTTCTCAGGACAGAATGACACAACACAAAAAGCATT TTCTAGGGCTGGTGAGACCACATTTATCTGTTCTCTAAAAGCACTAGCTCAGTCCCA AAAGAAGATTACAAATCTGAGAAGTTAGAGGAAAGGTACAGAATATGAATTCTGATTAA CAAGAAAAATCAATTAATGACATTGGTACTCTATTTTTCATATCAGTAATAATACAACT CAGCCCTTTTAAATCAGAGAATCTGCCATTCTATCTAATAAAGTAGCTTTACAACCC TAAAGTAAAAGAATTACATGAAGGTGTAACCAATTTGCATCCTTTAGAGACTGCAAT ATATAAGAGGATTTTTTTTTTTTGAAGCTTCTCCTTCTCAGTCTACAGGTTTTATGG TACTTCAGAGCCCAATAATCAATCAGTTCATGACTAAAGATAAAAGTGAACAAGTCCAC ACAGAGATCTGTGAAGACATCCGCCATTTTGTATAGGTATCCATTGATCGATTTATTAC TCCGGGGGAATTCTTGTCTTTAGAAGGGACCCTTGAATAACGGTGGCCACATACTTCT TTTATTTTTTGGAAAATTTGTCTATCTCCAGGCTCCCTTTCAAATGTATATATGGTCC ATTTGGCCACTTTTTGATTACATAACCTTTGCTCCACCCAGACTATTTTTTCTCAC TTTATTATCCACAAGCAAAATTTCTTTGTAAGATTTCAATCCTTCGGGCGGGTTATAAC TTACAAGGGTTTCTCCTTTTCTCGTCACTTTTATCCCGAGTGTTCTTCATTGCTATAC GGGAACCCCTTGTGCCGTTAATTTTATTGTCCACTTCTACCTTTTTGTGTTCTGGGTT AACTCTCCGAGTGGTACATTGATCGCACTTTCTTTTTTACCAGCCCTCTATCTTTTTA TACTCTCTCGTCAACTGTCCCGCCNAATCGTCACCATATCTCCTTCCCTCCCTATT CACACGTTCTCCATGTCACTATCTCTCCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001745
Insert Size:	1440 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).
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:	NM_001745.2 , NP_001736.1
RefSeq Size:	2203 bp
RefSeq ORF:	891 bp
Locus ID:	819
UniProt ID:	P49069
Cytogenetics:	5q31.1
Protein Families:	Druggable Genome
Gene Summary:	<p>The immunosuppressant drug cyclosporin A blocks a calcium-dependent signal from the T-cell receptor (TCR) that normally leads to T-cell activation. When bound to cyclophilin B, cyclosporin A binds and inactivates the key signaling intermediate calcineurin. The protein encoded by this gene functions similarly to cyclosporin A, binding to cyclophilin B and acting downstream of the TCR and upstream of calcineurin by causing an influx of calcium. This integral membrane protein appears to be a new participant in the calcium signal transduction pathway, implicating cyclophilin B in calcium signaling, even in the absence of cyclosporin. [provided by RefSeq, Jul 2008]</p>