

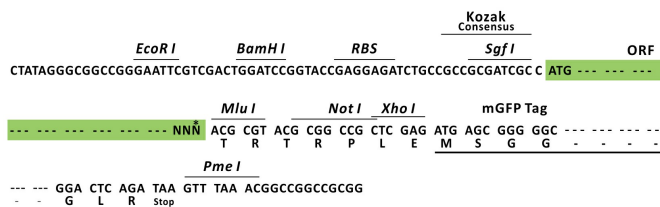
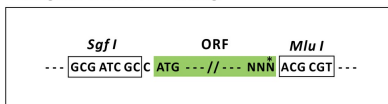
Product datasheet for RC207224L2

GCLM (NM_002061) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCLM (NM_002061) Human Tagged ORF Clone
Tag:	mGFP
Symbol:	GCLM
Synonyms:	GLCLR
Vector:	pLenti-C-mGFP (PS100071)
E. coli Selection:	Chloramphenicol (34 ug/mL)
Cell Selection:	None
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207224).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF.

ACCN:	NM_002061
ORF Size:	822 bp



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OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
RefSeq:	<p>NM_002061.2</p>
RefSeq Size:	<p>3074 bp</p>
RefSeq ORF:	<p>825 bp</p>
Locus ID:	<p>2730</p>
Protein Families:	<p>Druggable Genome</p>
Protein Pathways:	<p>Glutathione metabolism, Metabolic pathways</p>
MW:	<p>30.7 kDa</p>
Gene Summary:	<p>Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase, is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]</p>