

Product datasheet for **RG229124**

LMO2 (NM_005574) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LMO2 (NM_005574) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LMO2
Synonyms: LMO-2; RBTN2; RBTNL1; RHOM2; TTG2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229124 representing NM_005574
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGGGAGCGCGGTGACTGTCCTTGAGCGCGGAGGGGCGAGCTCGCCGGCGGAGCGCCGGAGCAAGC
 GGAGGGCGCAGGAGCGGCGGACGGCGGGCGGGCGGGCGCCCGAGCACCCGAGGGGGTCCGAGCCCC
 GGCAGCCGGCCAGCCCCGCGCCACAAAGGGAGCGCCCCCGCCCGGCACCCCGCCTCCCTCCCCAATG
 TCCTCGGCCATCGAAAGGAAGAGCCTGGACCTTCAGAGGAACCAAGTGGATGAGGTGCTGCAGATCCCC
 CATCCCTGCTGACATGCGGCGGCTGCCAGCAGAACATTGGGGACCGCTACTTCCTGAAGGCCATCGACCA
 GTACTGGCAGGAGACTGCCTGAGCTGCGACCTCTGTGGCTGCCGGCTGGGTGAGGTGGGCGGGCGCCTC
 TACTACAAACTGGGCCGGAAGCTCTGCCGAGAGACTATCTCAGGCTTTTGGGCAAGACGGTCTCTGCG
 CATCCTGTGACAAGCGGATTCGTGCCTATGAGATGACAATGCGGGTAAAAGACAAAGTGTATCACCTGGA
 ATGTTTCAAATGCGCCGCTGTGAGAAGCATTCTGTGTAGGTGACAGATACCTCCTCATCAACTCTGAC
 ATAGTGTGCGAACAGGACATCTACGAGTGGACTAAGATCAATGGGATGATA

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229124 representing NM_005574
Red=Cloning site Green=Tags(s)

MEGSAVTVLERGGASSPAERRSKRRRRSSGGGGGGGARAPEGVRAPAAGQPRATKGAPPPPGTPPPSPM
 SSAIERKSLDPSEEPVDEVLQIPPSLLTCGGCQQNIQDRYFLKAIQYWHEDCLSCDLGCGRLGEVGRRL
 YYKLGRKLCRRDYLRFGQDGLCASCDKRIRAYEMTMRVKDKVYHLECFKCAACQKHFVCGDRYLLINSD
 IVCEQDIYEWTKINGMI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005574

ORF Size: 681 bp

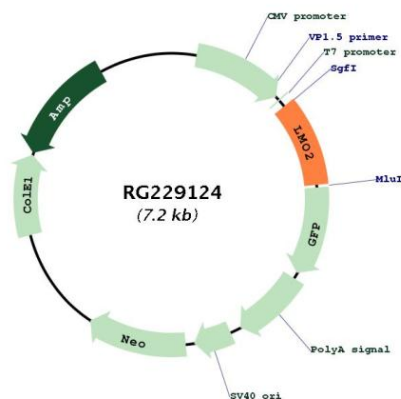
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_005574.4
RefSeq Size:	2303 bp
RefSeq ORF:	684 bp
Locus ID:	4005
UniProt ID:	P25791
Cytogenetics:	11p13
Domains:	LIM
Protein Families:	Druggable Genome
Gene Summary:	LMO2 encodes a cysteine-rich, two LIM-domain protein that is required for yolk sac erythropoiesis. The LMO2 protein has a central and crucial role in hematopoietic development and is highly conserved. The LMO2 transcription start site is located approximately 25 kb downstream from the 11p13 T-cell translocation cluster (11p13 ttc), where a number T-cell acute lymphoblastic leukemia-specific translocations occur. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Nov 2008]

Product images:



Circular map for RG229124