

Product datasheet for **RG205376**

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; RBTN1; RHOM2; TTG2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205376 representing NM_005574
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCTCGGCCATCGAAAGGAAGAGCCTGGACCCTTCAGAGGAACCAAGTGGATGAGGTGCTGCAGATCC
 CCCCATCCCTGCTGACATGCGCGGCTGCCAGCAGAACATTGGGGACCGCTACTTCTGAAGCCATCGA
 CCAGTACTGGCACGAGGACTGCCTGAGCTGCGACCTCTGTGGCTGCCGGCTGGGTGAGGTGGGGCGGCGC
 CTCTACTACAACTGGGCCGGAAGCTCTGCCGGAGAGACTATCTCAGGCTTTTGGCAAGACGGTCTCT
 GCGCATCTGTGACAAGCGGATTCGTGCCTATGAGATGACAATGCGGGTAAAAGACAAAGTGTATCACCT
 GGAATGTTTCAAGTGCGCCGCTGTGAGAAGCATTCTGTGTAGGTGACAGATACCTCCTCATCAACTCT
 GACATAGTGTGCGAACAGGACATCTACGAGTGGACTAAGATCAATGGGATGATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205376 representing NM_005574
 Red=Cloning site Green=Tags(s)

MSSAIERKSLDPSEEPVDEVLQIPPSLLTCGGCQNIQDRYFLKAIDQYWHEDCLSCDLGCRLGEVGRR
 LYYKLGRKLCRRDYLRLFGQDGLCASCDKRIRAYEMTMRVKDKVYHLECFKCAACQKHFCVGDYRLLINS
 DIVCEQDIYEWTKINGMI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_005574

ORF Size: 474 bp

OTI Disclaimer: 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:

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_005574.2](#), [NP_005565.1](#)

RefSeq Size: 2304 bp

RefSeq ORF: 684 bp

Locus ID: 4005

UniProt ID: [P25791](#)

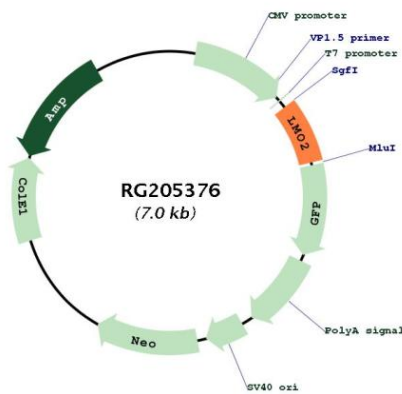
Cytogenetics: 11p13

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 RG205376