

Product datasheet for **SC330462**

Monoacylglycerol Lipase (MGLL) (NM_001256585) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Monoacylglycerol Lipase (MGLL) (NM_001256585) Human Untagged Clone
Tag: Tag Free
Symbol: Monoacylglycerol Lipase
Synonyms: HU-K5; HUK5; MAGL; MGL
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330462 representing NM_001256585.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAACAGGACCTGAAGACCCCTCCAGCATGCCAGAGGAAAGTTCCCCAGGCGGACCCCGCAGAGC
ATTCCCTACCAGGACCTCCCTCACCTGGTCAATGCAGACGGACAGTACCTCTTCTGCAGGTACTGGAAA
CCCACAGGCACACCCAAGGCCCTCATCTTTGTGTCCCATGGAGCCGGAGAGCACAGTGGCCGCTATGAA
GAGCTGGCTCGGATGCTGATGGGCTGGACCTGCTGGTGTTCGCCACGACCATGTTGGCCACGGACAG
AGCGAAGGGGAGAGGATGGTAGTGTCTGACTTCCACGTTTTTCGTCAGGGATGTGTTGCAGCATGTGGAT
TCCATGCAGAAAGACTACCTGGGCTTCTGTCTTCTTCTGGGCCACTCCATGGGAGGCCCATCGCC
ATCCTCACGGCCGAGAGAGGCCGGCCACTTCGCCGGCATGGTACTCATTTCGCCTCTGGTTCTTGCC
AATCCTGAATCTGCAACAACCTTTCAAGGTGCAGATTTATAACTCAGACCCCTGATCTGCCGGGCAGGG
CTGAAGGTGTGCTTCGGCATCCAAGTCTGAATGCCGTCTCACGGGTGGAGCGCGCCCTCCCAAGCTG
ACTGTGCCCTTCTGTCTGCTCCAGGGCTCTGCCGATCGCCTATGTGACAGCAAAGGGCCTACCTGCTC
ATGGAGTTAGCCAAGAGCCAGGACAAGACTCTCAAGATTTATGAAGGTGCCTACCATGTTCTCCACAAG
GAGCTTCTGAAGTCACCAACTCCGTCTTCCATGAAATAAACATGTGGGTCTCTCAAAGGACAGCCACG
GCAGGAAGTGCCTCCCCACCC
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Restriction Sites: Sgfl-Mlul
ACCN: NM_001256585
Insert Size: 852 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).



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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_001256585.1](#)

RefSeq Size: 4563 bp

RefSeq ORF: 852 bp

Locus ID: 11343

UniProt ID: [Q99685](#)

Cytogenetics: 3q21.3

Protein Families: Druggable Genome, Protease

Protein Pathways: Glycerolipid metabolism, Metabolic pathways

MW: 31.1 kDa

Gene Summary: This gene encodes a serine hydrolase of the AB hydrolase superfamily that catalyzes the conversion of monoacylglycerides to free fatty acids and glycerol. The encoded protein plays a critical role in several physiological processes including pain and nociperception through hydrolysis of the endocannabinoid 2-arachidonoylglycerol. Expression of this gene may play a role in cancer tumorigenesis and metastasis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]
Transcript Variant: This variant (3) lacks an exon in the 3' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.