

Product datasheet for RC202412

Monoacylglycerol Lipase (MGLL) (NM_001003794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Monoacylglycerol Lipase (MGLL) (NM_001003794) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Monoacylglycerol Lipase
Synonyms:	HU-K5; HUK5; MAGL; MGL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202412 representing NM_001003794 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGAGGAAAGTTCCCCAGGCGGACCCCGCAGAGCATTCCCTACCAGGACCTCCCTCACCTGGTCA
ATGCAGACGGACAGTACCTCTTCTGCAGGTAAGTGGAAACCCACAGGCACACCCAAGGCCCTCATCTTTGT
GTCCCATGGAGCCGGAGAGCACAGTGGCCGCTATGAAGAGCTGGCTCGGATGCTGATGGGGCTGGACCTG
CTGGTGTTCGCCCACGACCATGTTGGCCACGGACAGAGCGAAGGGGAGAGGATGGTAGTGTCTGACTTCC
ACGTTTTTCGTAGGGATGTGTTGCAGCATGTGGATTCCATGCAGAAAGACTACCTGGGCTTCTGTCTT
CCTTCTGGGCCACTCCATGGGAGGCGCCATCGCCATCCTCACGGCCGAGAGAGGCCGGGCCACTTCGCC
GGCATGGTACTCATTTCGCCTCTGGTCTTGCATCCTGAATCTGCAACAACCTTCAAGGTCCTTGCTG
CGAAAGTGCTCAACCTTGTGCTGCCAACTTGTCCCTCGGGCCATCGACTCCAGCGTGCTCTCTCGGAA
TAAGACAGAGGTGCACATTTATAACTCAGACCCCTGATCTGCCGGGCAGGGCTGAAGGTGTGCTTCGGC
ATCCAAGTGTGAATGCCGTCTCACGGTGGAGCGCCCTCCCAAGCTGACTGTGCCCTTCTGCTGC
TCCAGGGCTCTGCCGATCGCCTATGTGACAGCAAAGGGGCTACCTGCTCATGGAGTTAGCCAAGAGCCA
GGACAAGACTCTCAAGATTTATGAAGGTGCCTACCATGTTCTCCACAAGGAGCTTCTGAAGTCACCAAC
TCCGTCTTCATGAAATAAACATGTGGTCTCTCAAAGGACAGCCACGGCAGGAAGTCCGTCACCCACCC

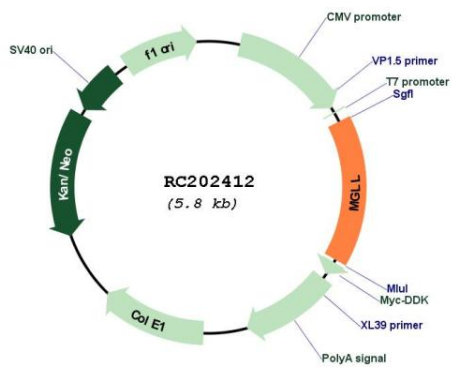
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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:	<u>NM_001003794.2</u> , <u>NP_001003794.1</u>
RefSeq Size:	4246 bp
RefSeq ORF:	912 bp
Locus ID:	11343
UniProt ID:	<u>Q99685</u>
Cytogenetics:	3q21.3
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Glycerolipid metabolism, Metabolic pathways
MW:	33.3 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]

Product images:



Circular map for RC202412