

Product datasheet for **MG214305**

Medag (NM_027519) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Medag
Synonyms:	6330406I15Rik; Awms3; mAWMS3; MEDA-4; Meda4
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG214305 representing NM_027519
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACTGCAGCGTGCAGCCTGTGGCCAGACCCAGCCTGACCTCCATTTTCATCCGGGGAGCTGCGCA
GTCTGTGGACGTGCGACTGCGAGCTGGCCCTGTGCCCTGTGCGAGCTGCTCCGCCTACAGCCTGGTGC
CTTCCAACCTGCGCGGTGAGCAGCTCCTGGTGCCCGGGCCCGGGGAACCCGCGGCCGAACGTGGGGCTTC
AACGTCTTCGGGGACGGCCTTGTGCGCCTAGACGGGCAGCTCTATCGCTCAGCAGCTACATCAAGAGAT
ATGTGGAACGTGACCAACTACTGTGATTATAAAGACTACAGGGAAACGATACTGAGCAAACCTATGGTATT
CTTTATTAACGTGCAGACCAAGAAGGACATTTCAAAGAAAGGACCTATGCGTTTTCTGTGAACACAAGG
CACCCAAGATAAGAAGACAGATAGAGCAAGGGATGGACATGGTCATTTCTCAGTGATTGGAGAAAGCT
ATAGACTTCAGTTTGATTTCCAGGAAGTAGTGAAGAATTTCTCCCTCCAGGAACGATTGTGCTGAATGG
AGAGAAATTTGAGCTTACCTACGAATTCAGGCAGATGCCCTGTTTGATTCTTCTACTGGTTTGGGCTC
AGCAATTCACCGTAAAAGTGCACGGAAAGTTCTGAACCTGACAAGTACGAACCCAGAAAAGAAAAGAAA
CAATCAAGTTATTTCTGGAAAAATGAGTGAACCTCTAATACGAAGGAGTAGTTTCTGATCGGAAAT
TAGCGTCACATCTAGAGGTTCAATAGATGACGTTTTCAACTGCAATCTGTCACCCAGATCATCGGTTACA
GAACCACTTTTGGCAGAATTCATTTCCAAGTCTTCTGGAATGTGAAGAGACATCCAGCCAACCTATC

ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG214305 representing NM_027519
Red=Cloning site Green=Tags(s)

MATAACEPVARPSLTSISSGELRSLWTCDELALLPLSQLLRLQPGAFQLRGEQLLVPGPGEPAAERGGF
 NVFGDGLVRLDGQLYRLSSYIKRYVELTNYCDYKDYREITILSKPMVFFINVQTKKDISKERTYAFLVNTR
 HPKIRRQIEQGMDMVISSVIGESYRLQDFQEVVKNFFPPGTIVLNGENLSFTYEFKADALFDFYWFGL
 SNSTVKVHGKVLNLTSTNPEKKETIKLFLEKMSEPLIRSSFSDRKFSVTSRGSIDDFVNCNLSPPRSVT
 EPLLAEFSPSLLECEETSSQLI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_027519

ORF Size: 909 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_027519.3](#), [NP_081795.1](#)

RefSeq Size: 2876 bp

RefSeq ORF: 912 bp

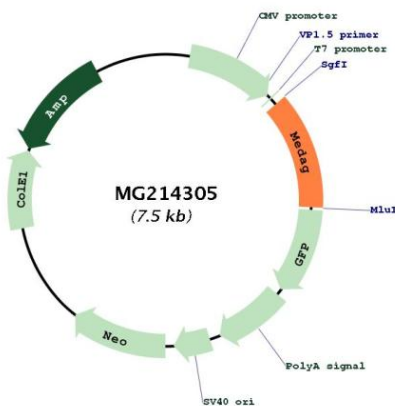
Locus ID: 70717

UniProt ID: [Q14BA6](#)

Cytogenetics: 5 G3

Gene Summary: Involved in processes that promote adipocyte differentiation, lipid accumulation, and glucose uptake in mature adipocytes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG214305