

Product datasheet for **MG215605**

Mill2 (NM_153761) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Mill2
Synonyms:	Micb
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG215605 representing NM_153761
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAGCCAGTTCTGGAAAGCCAGAGAATTCAGACCAGCAGTCTACTGTTGATCTTAGGGCTGCTCC
TTAGAGACTCACGGGATCCAGCATCCAAGGGTTTCTGGCTGACGTGGAGGTTTCATGGTTCCAGCAGGCT
GACCAGAACCACACTCTGCGCTATAATGTCAGAGCCATTCTCTGGAGGGTCTGAGAAGACCCAGCTC
CTGGTCCTAATACGTAGATGAAGAGCTTCTCCTGAAATAACAATGGAGACAGCAGGGAGACAGAGCCCT
TGGGATGCTGGATTAAGGGCCATGGGGGAAATGAGACCTGTGCAAGAGAGACTAACAACTCTGTTGAAGGT
GGAAGAGAACTCAGGGGATGATGGCTGAGGTTATAAACCAGAAGAGTCAGGAGGAAGGCCTTCACT
CTCCAGGCAACTTTGGGCTGTGAGCTTCTGAGTAATGGGAGCACTAGAGGCTTCTGGCACCTGGGCTATG
ATGGGCAGAACTTCTCACCTTTGACCAGAAGACTCTCACGTGGACAGTGGATGGACCCTCCACCAGCA
GAACAAGATGTTCTGGAAGACACATGCACCAGAGCTGATCTAGTTAAGACATTCTTGGATGATATATGT
CCTGCTCACCTCCAGAGATACCTCGCTTCTTGAGAAACGGTCTGCAGGATACAGGACCCCAATGGTAA
CTGTGACCTGCAGGAATACCAAGTAGGTAGGGTCACACTGACATGCCGGGCTTTAATCTGTATACCCG
TGAGGCCACCCTGGTCTGGCTCAGGATGGGAAGCCAGTACAGCAGAAAACCTTCAGATCTGAGACCATC
CTGCCACGGGGATGGGACCTACCAGGCCCGGGTGTCCATTCCGGTTCTTCTGACAGGAACCAAGT
TCAGCTGCAACCTGAGGCATGGCAACCATAGCATCATGCAGACAGCTGTCTCTGGGCATGCTGCTGAGGA
CAGTCAGGATGTTGCTAGCTCTGCTACAGCTTCACTGGATCTGCACTCCCTGTTGTATTGGCGGTGGCA
CTGGCCAGACCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG215605 representing NM_153761
 Red=Cloning site Green=Tags(s)

MKASSGKPREFRPAVLLLLILGLLLRDSRGSSIQGFADVEVHGSSRLTRHTLRYNVRAHSLEGSEKTQL
 LVLIYVDEELFLKYNGDSRETEPLGCWIKGHGGNETCARETNLLKVEEKL RGMMAEVINQKSQEGLHT
 LQATLGCELLSNGSTRGFHWLGYDQGNFLTFDQKTLTWTVDGPSTQQNMFWKTHAPRADLVKFTLDDIC
 PAHLQRYLASLRNGLQDTGPPMVTVTCRNYPVGRVTLTCRAFNLTYREATLVWLQDGKPVQKQKTFRSETI
 LPSGDGTQARVSIKRVLPQEPQFSCNLRHGNHSIMQTA VSGHAAEDSQDVASSATASAGSALPVVLAVLA
 LARAN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153761

ORF Size: 1065 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_153761.3](#), [NP_715642.2](#)

RefSeq Size: 1120 bp

RefSeq ORF: 1068 bp

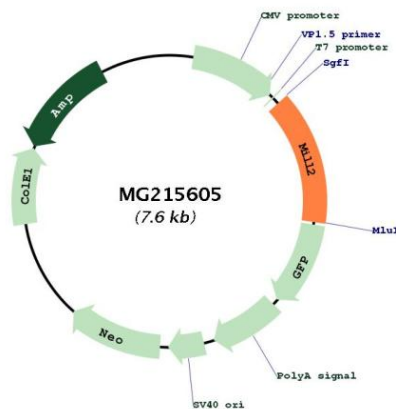
Locus ID: 243864

UniProt ID: [Q8HWE6](#)

Cytogenetics: 7 9.35 cM

Gene Summary: Binds to heparan sulfate proteoglycans on the surface of fibroblast (NIH-3T3) cells. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215605