

Product datasheet for **RR200441**

Mfge8 (NM_001040186) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mfge8 (NM_001040186) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mfge8
Synonyms:	AGS; MFGME8; MFGMP-E8; OAcGD3S
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200441 representing NM_001040186
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGTTCTCCCGTGTGCTGGCCGCGCTGTGCGGTGTGCTGCTGCGCCTCCGGCCTCTTCGCTGCGT
 CCGGTGACTTCTGTGACTCCAGCCTGTGCTGAATGGTGGGACCTGCTTGATGGGCCAAGACAATGACAT
 CTA CTGCCTCTGCCCTGAAGGCTTCACAGGCCTTGTGTGCAACGAGACTGAGAAAGGACCGTGTTCCTCA
 AACCTTGTCTCCACGATGCCAAATGCCTGGTACTGAGGACACACAGCGAGGGGACATCTTCACTGAGT
 ACATCTGCCAGTGCCTGTGGGCTACTCGGCATCCACTGTGAACTCGAGACCACCTCTACCTGGATGG
 AGAGTACCTGTCCAGCCCAGCCGTCCCTACCACAGCCGTCCCACCACAGCCATCCCACCACAGCCGTC
 CCCACCACAGCCGTCCCACCACAGCCGTCCCACCCGCCCCAACCCCGATCTTTCAAACACCTAG
 CCTCCCGTGTCCACAAAGCTGGGCTTGAAGGGGGCGCCATTGCCGATTCACAGATTTCTGCCTCGTC
 TGTGTATATGGGCTTCATGGGCTTGACGCGCTGGGGCCCGGAGCTGGCTCGCCTGTATCGCACAGGGATT
 GTCAATGCATGGACAGCCAGCAGCTATGATAGCAAGCCCTGGATCCAGGTGGACTTCTGCGGAAGATGC
 GGGTATCAGGTGTGATGACACAGGGTGCCAGCCGTGCCGGGAGGGCGGAATACCTGAAGACCTTCAAGT
 GGCTTACAGCCTCGATGGACGCAGGTTCGAGTTCATCCAGGATGAAAGCGGAACCGGAGACAAGGAGTTT
 ATGGGTAACCAGGACAACAACAGCCTGAAGATTAACATGTTCAACCCCACTCTGGAGGCACAGTACATAA
 GGCTGTACCCTGTCTCGTGCCACCGCGGCTGCACCCTCCGCTTCGAGCTCCTGGGCTGCGAGTTGCATGG
 ATGCTCTGAGCCCCTGGGCTGAAGAATAACACGATTCCTGACAGCCAAATAACAGCCTCCAGCAGCTAC
 AAGACGTGGAACCTGCGTGCCTTTGGCTGGTACCCCACTTGGGGCGGCTGGACAATCAGGGCAAGATCA
 ATGCCTGGACAGCTCAGAGCAACAGTCCAAGGAATGGCTGCAGGTTGACCTGGGCACTCAGAAAAAATG
 GACAGGAATTATCACCCAGGGGGCCGTGACTTTGGCCACATCCAGTATGTGGCATCCTATAAGGTAGCC
 CACAGTGTGATGGTGTGACGTGACCGTATATGAGGAACAAGGAACCAGCAAGGTCTTCCAGGGCAACT
 TGGACAACAACCTCCACAAGAAGAACATCTTTGAGAAACCTTTTATGGCTCGCTATGTGCGTGTCTTCC
 ACTGTCCTGGCATAACCGTATCACCTGCGCCTGGAGCTGCTGGGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200441 representing NM_001040186
 Red=Cloning site Green=Tags(s)

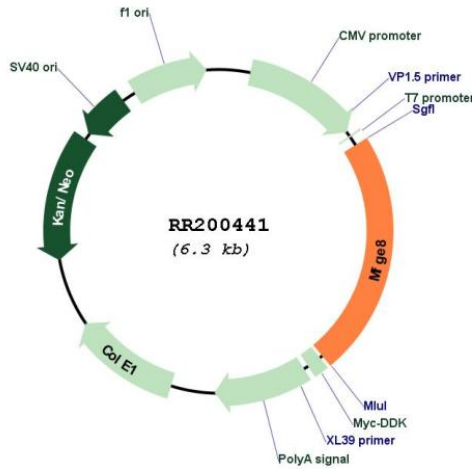
MQFSRVLAAALCGVLLCASGLFAASGDFCDSSLCLNGGTCLMGQDNDIYCLCPEGFTGLVCNETEKGPCSP
 NPCFHDAKCLVTEDTQRGDIFFEYICQCPVGYSGIHCELETTSYLDGEYLSSPAVPTTAVPTTAIPTTAV
 PTTAVPTTAVPTPAPNPDL SNHLASRCSTKLGLEGGAIADSQISASSVYMGFMGLQRWGPPEARLYRTGI
 VNAWTASSYDSKPWIQVDFLRKMRVSGVMTQASRAGRAEYKTFKVAYS LDGRRFEFIQDES GTGDKEF
 MGNQDNNSLKINMFNPTLEAQYIRLYPVSCHRGCTLRFELLGCELHGCSEPLGLKNNTIPDSQITASSY
 KTWNLRAFGWYPHLGRLDNQGKINAWTAQSNSAKEWLQVDLGTQKKVTGIITQGARDFGHIQYVASYKVA
 HSDDGVQWTVYEEQGTSKYFQGNLDNNSHKKNIFEKPFMARYVRVPLPSWHNRITLRLELLGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_001040186

ORF Size:

1449 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_001040186.2](#), [NP_001035276.1](#)

RefSeq Size: 2188 bp

RefSeq ORF: 1452 bp

Locus ID: 25277

UniProt ID: [P70490](#)

Cytogenetics: 1q31

MW: 53.1 kDa

Gene Summary: involved in the O-acetylation of GD3 ganglioside sialic acid [RGD, Feb 2006]