

Product datasheet for **RR200440**

Mfge8 (NM_012811) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mfge8 (NM_012811) 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
ORF Nucleotide Sequence:	>RR200440 representing NM_012811 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCAATTCTCCCGTGTGCTGGCCGCGCTGTGCGGTGTGCTGCTCTGCGCCTCCGGCCTCTTCGCTGCGT
CCGGTGACTTCTGTGACTCCAGCCTGTGCCTGAATGGTGGGACCTGCTTGATGGGCAAGACAATGACAT
CTACTGCCTCTGCCCTGAAGGCTTCACAGGCTTGTGTGCAACGAGACTGAGAAAGACCGTGTCCCA
AACCCCTTGCTTCCACGATGCCAAATGCCTGGTGACTGAGGACACACAGCGAGGGGACATCTTCACTGAGT
ACATCTGCCAGTCCCTGTGGGCTACTCGGCATCCACTGTGAACTCGGCTGTTCCACAAAGCTGGGCTT
GGAAGGGGGCGCCATTGCCGATTCACAGATTTCTGCCTCGTCTGTGTATATGGGCTTCATGGGCTTGACG
CGCTGGGGCCCGGAGCTGGCTCGCCTGTATCGCACAGGGATTGTCAATGCATGGACAGCCAGCAGCTATG
ATAGCAAGCCCTGGATCCAGGTGGACTTCTGCGGAAGATGCGGGTATCAGGTGTGATGACACAGGGTGC
CAGCCGTGCCGGGAGGGCGGAATACCTGAAGACCTCAAGGTGGCTTACAGCCTCGATGGACGCAGGTTC
GAGTTCATCCAGGATGAAAGCGGAACCGGAGACAAGGAGTTTATGGGTAACCAGGACAACAACAGCCTGA
AGATTAACATGTTCAACCCCACTCTGGAGGCAGTACATAAGGCTGTACCCTGTCTCGTCCACCGCGG
CTGCACCCTCCGCTTCGAGCTCCTGGGCTGCGAGTTGCATGGATGCTCTGAGCCCTGGGCTGAAGAAT
AACACGATTCTGACAGCCAAATAACAGCCTCCAGCAGCTACAAGACGTGGAACCTGCGTGCCTTTGGCT
GGTACCCCACTTGGGGCGGCTGGACAATCAGGGCAAGATCAATGCCTGGACAGCTCAGAGCAACAGTGC
CAAGGAATGGCTGCAGTTGACCTGGGCACTCAGAAAAAGTGACAGGAATTATCACCCAGGGGGCCCGT
GACTTTGGCCACATCCAGTATGTGGCATCTATAAGGTAGCCACAGTGTGATGGTGTGACAGTGGACCG
TATATGAGGAACAAGGAACAGCAAGTCTTCCAGGGCAACTGGACAACAACCTCCACAAGAAGAACAT
CTTTGAGAAACCTTTCATGGCTCGCTATGTGCGTGTCTTCCACTGTCTGGCATAACCGTATCACCTG
CGCTGGAGCTGCTGGGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR200440 representing NM_012811
 Red=Cloning site Green=Tags(s)

MQFSRVLAAALCGVLLCASGLFAASGDFCDSSSLCLNGGTCLMGQDNDIYCLCEPFGFTGLVCNETEKGPCSP
 NPCFHDAKCLVTEDTQRGDIFFEYICQCPVGYSGIHCELGCS TKLGLGEGGAIADSQISASSVYMGFMGLQ
 RWGPPEARLYRTGIVNAWTASSYDSKPWIQVDFLRKMRVSGVMTQGASRAGRAEYLKTFKVAVSLDGRRF
 EF IQDES GTGDKEFMGNQDNNSLKINMFNPTLEAQYIRLYPVVSCHRGCTLRFELLGCELHGCSEPLGLKN
 NTIPDSQITASSSYKTWNLRAFGWYPHLGRLDNQGKINAWTAQSN SAKEWLQVDLGTQKKVTGII TQGAR
 DFGHIQYVASYKVAHSDDG VQWTVYEEQGT SKVFQGNLDNNSHKKNIFEKPFMARYVRVLP LSWHN RITL
 RLELLGC

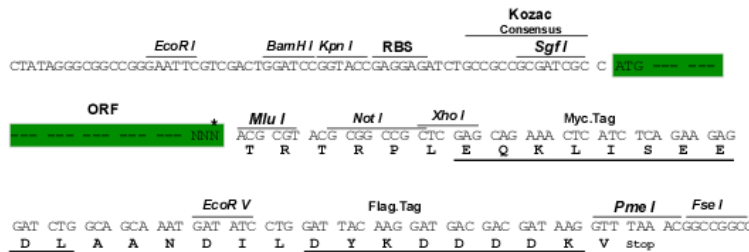
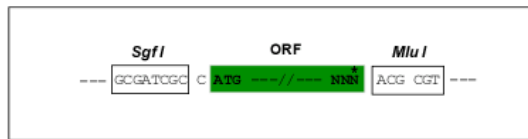
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

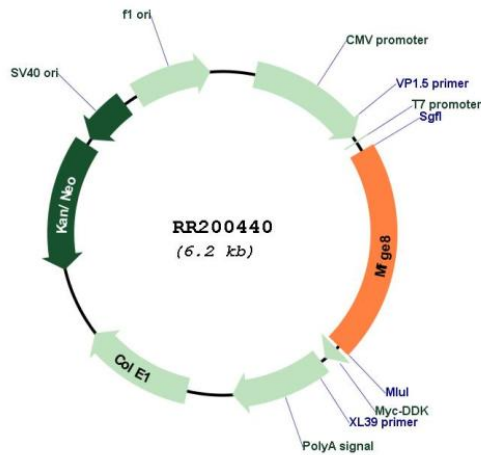
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_012811

ORF Size:	1281 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:	<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:	NM_012811.3 , NP_036943.1
RefSeq Size:	2020 bp
RefSeq ORF:	1284 bp
Locus ID:	25277
UniProt ID:	P70490
Cytogenetics:	1q31
MW:	47.4 kDa
Gene Summary:	involved in the O-acetylation of GD3 ganglioside sialic acid [RGD, Feb 2006]