

Product datasheet for **MR211167**

Mgea5 (NM_023799) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgea5 (NM_023799) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mgea5
Synonyms:	2810009A20Rik; 4833427O07Rik; 5830447M11Rik; AA408215; Hy5; mKIAA0679; Ncoat; OGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211167 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCAGAAGGAGAGCCAGGCGCGCTGGAGGAGCGGGAGAGCGCAACGCCAACCTGCCGCCG
 CCTCGGGGGCTTCGTTGGAGCAGTCGGTAGCTCCCGCCCCGGAGAAGATAACCCATCGGGAGCCGGGGC
 TCGCGCCGTGGTCGGGGCGGCCGGAGGGGCCCGCAGGTTCTGTGCGGTGTCGTGGAAGGTTTTATGGA
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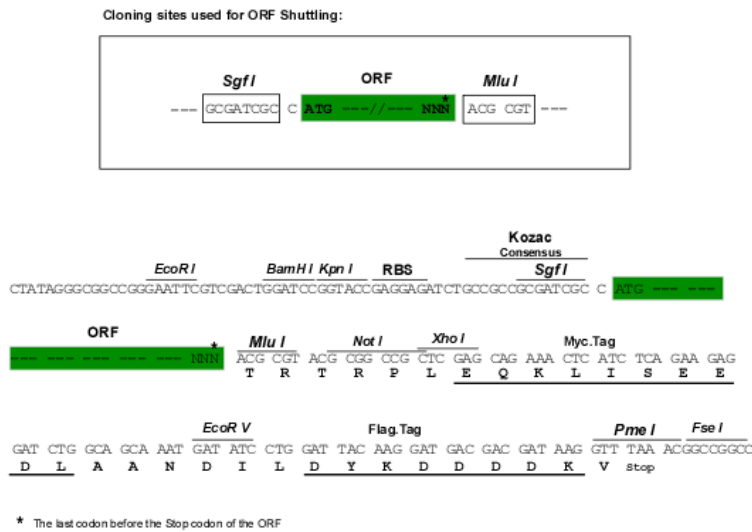
Protein Sequence: >MR211167 protein sequence
 Red=Cloning site Green=Tags(s)

MVQKESQAAL EERESERNANPAAASGASLEQSVAPAGEDNPSGAGAAAVVGAAGGARFLCGVVEGFYGRPWVMEQRKELFRRLQKWELNTYL YAPKDDYKHRMFWREMYSVEEAQLMTLISAAREYEIEFIYAI SPGLDITFSNPKEVSTLKRKLDQVSQFGCRSFALLFDDIDHNMCAADKEVFSFAHAQVSIITNEIYQYLGEPE TFLFCPT EYCGTF CYPNVSQSPYLRTVGEKLLPGIEVLWTGPKVVSKEIPVESIEEVSKI IKRAPVIWDNIHANDYDQKRLFLGPYKGRSTELIPRLKGYLTNPNCFEFANYVAIHTLATWYKSNMNGVRKDDVMTDSE DSTVSIQIKLENEGSDEDIETDVL YSPQMAKLALTEWLQEFVPHQYSSRQVAHSGAKTSVVDGTPLVAA PSLNATTVVTTYQEPIMSQGAALSGEPSVLTKEEEKQPDEEPMVMVVEKQEEAEHKNDNQILTEIVEA KMAEELRPMDDKESMAESKSPMSMQEDCIPDVAPMQTDEQTQKEQFVPGPNEKPLYTAEPVTLEDLQL LADLFYLPYEHGPKGAQMLREFQWLRANSSVSVNCKGKDKSEKIEEWSRAAKFEEMCALVMGMFTRL SN CANRTILYDMYSYVWDIKSISMSVKS FVQWLGCRSHSSAQFLIGDQEPWAFRGG LAGEFQRLLPIDGAND LFFQPPPLTPTSKVYTI RPYFPKDEASVYKICREMYDDGVGPFQSQPDLIGDKLVGGLLSLDYCFVL EDEDGICGYALGTVDPFPIKCKISWIPFMQEKYTKPNGDKELSEA EKIMLSFHEEQEVLPETFLANF PSLIKMDIHKKVTDPSVAKSMMACLLSSLKANGSRGAFCEVRPDDKRILEFYSKLGCFEIAKMEGFPKDVV ILGRSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

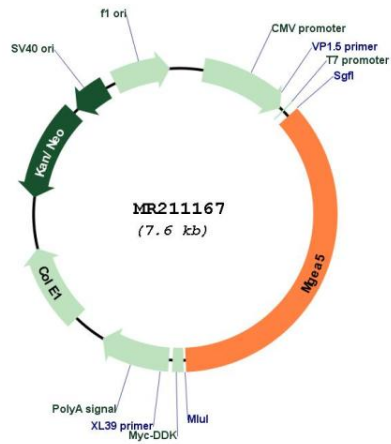


ACCN: NM_023799

ORF Size: 2751 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_023799.2
RefSeq Size:	4797 bp
RefSeq ORF:	2751 bp
Locus ID:	76055
UniProt ID:	Q9EQQ9
Cytogenetics:	19 38.75 cM
MW:	103.2 kDa
Gene Summary:	Cleaves GlcNAc but not GalNAc from O-glycosylated proteins. Can use p-nitrophenyl-beta-GlcNAc and 4-methylumbelliferone-GlcNAc as substrates but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc (in vitro) (PubMed:16517082). Does not bind acetyl-CoA and does not have histone acetyltransferase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211167