

## Product datasheet for **MC222569**

### **Mgea5 (NM\_023799) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mgea5 (NM_023799) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:**

>MC222569 representing NM\_023799  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGCAGAAGGAGAGCCAGGCGCGCTGGAGGAGCGGGAGAGCGCAACGCCAACCTGCCGCCG  
 CCTCGGGGGCTTCGTTGGAGCAGTCGGTAGCTCCCGCCCCGGAGAAGATAACCCATCGGGAGCCGGGGC  
 TCGCGCGGTGGTCGGGGCGGCCGGAGGGGCCCGCAGGTTCTGTGCGGTGTCGTGGAAGGTTTTATGGA  
 AGACCTTGGGTTATGGAGCAGAGAAAAGAGCTCTTTAGAAGGCTTCAGAAATGGGAATTAACACATACT  
 TGTATGCTCCAAAAGATGACTACAAACATAGGATGTTTTGGCGAGAGATGATTCAGTGGAGAAGCTGA  
 GCAACTTATGACTCTGATCTCTGCTGCACGAGAATATGAAATAGAATTCATCTATGCTATTTGCCAGGA  
 CTAGATACACTTTTTCTAACCCCAAGGAAGTATCAACGTTGAAACGCAAATGGACCAGGTCTCTCAGT  
 TTGGGTGCAGGTCGTTTCTTTGCTTTTGTATGATATTGACCATAATATGTGTGCAGCAGACAAAGAGGT  
 GTTCAGTTCTTTGCACATGCACAAGTTCCATCACCAATGAAATTTATCAGTACCTGGGAGAGCCAGAA  
 ACCTTCTCTTCTGCCCTACAGAATACTGTGGCACTTTCTGTTATCCAAATGTATCTCAGTCTCCTTACT  
 TGAGGACTGTGGGTGAGAAGCTTCTACCTGGAATTGAGGTGCTTTGGACAGGTCCAAAAGTTGTTTCAAA  
 AGAAATCCAGTGGAAATCTATTGAAGAAGTTTCTAAGATCATTAAAGAGAGCTCCAGTGTCTGGGATAAC  
 ATTCATGCTAATGATTATGATCAGAAGAGGCTGTTTCTGGGTCCCTACAAGGAAGATCCACAGAGCTCA  
 TCCCACGGTTAAAGGGAGTACTAACCAATCCAAATTTGTAATTTGAAGCTAACTACGTTGCCATACACAC  
 CCTTGCCACTTGGTACAAGTCAAACATGAACGGAGTGAGGAAGGATGTGGTGTGACTGACAGTGAAGAC  
 AGTACTGTATCAATACAGATAAAGTTAGAAAATGAAGGCAGTGACGAAGACATTGAGACTGATGTTCTCT  
 ACAGCCCAAGATGGCTTTAAAGCTGGCTTTAACTGAGTGGCTGCAGGAGTTCGGTGTCCCTCATCGTA  
 CAGCAGTAGGCAAGTTGCACACAGTGGAGCTAAGACAAGTGTAGTTGATGGGACTCCCTTAGTTGCTGCA  
 CCCTCTTTAAATGCCACAAGTGTAGTTACAACAGTTTACCAGGAGCCATTATGAGCCAGGGAGCAGCTT  
 TGAGTGGTGAACCCTCAGTTCTGACCAAGGAAGAGGAAAAGAAACAGCCAGATGAGGAACCCATGGATAT  
 GGTGGTCGAAAAGCAAGAAGAAGCAGAGCACAAGAATGACAACCAGATACTAACTGAGATTGTTGAAGCG  
 AAGATGGCAGAGGAGTTGAGACCAATGGACACGGATAAGGAGAGCATGGCTGAGTCCAAATCCCAGAGA  
 TGTCATGCAGGAAGACTGCATTCTGACGTGGCTCCTATGCAGACAGATGAGCAACACAGAAGGAGCA  
 GTTTGTGCCAGGTCCAAATGAAAAGCCTCTGTACACCGCAGAGCCTGTGACTCTGGAGGACTTACAGTTA  
 CTCGCTGACCTGTTCTACCTTCTTACGAGCACGGGCCAAAGGAGCGCAGATGCTACGGGAATTCAGT  
 GGCTTCGAGCAAACAGCAGTGTGTGAGTCAACTGCAAAGGGAAAGACTCAGAAAAAATAGAAGAATG  
 GCGGTCACGAGCAGCAAGTTTGAAGAGATGTGTGCACTAGTGTGAGGATGTTACCCCGCTTTCCAAC  
 TGTGCCAACAGGACCATCCTTTATGACATGTACTCCTATGTGTGGGACATCAAGAGTATAATGTCTATGG  
 TGAAATCTTTTGTGAGTGGTTAGGGTGTGCTAGTCACTTTCAGCACAGTTCTTAATTGGAGACCAGGA  
 GCCCTGGGCTTTAGAGGTGGTCTAGCAGGAGAGTTCCAGCGTTTGTGCCAATTGATGGAGCAAATGAT  
 CTCTTTTTTCAACCACCCCACTGACTCCAACCTCCAAAGTTTAACTATCAGACCTTATTTCCCTAAAG  
 ATGAGGCTTCCGTGTACAAGATTTGCAGAGAAAATGTATGATGATGGAGTGGGTTTCCCTTTTCAAAGTCA  
 ACCTGACCTTATTGGAGACAAGTTAGTAGGAGGACTGCTCTCCCTCAGCCTGGATTACTGCTTCGTCCTA  
 GAAGATGAAGATGGCATTGTGGTTATGCCTTAGGCACAGTAGATGTGACCCCTTCATTAATAAAGTGTGA  
 AAATTTCTGGATTCCCTTCATGCAAGAGAAGTATACCAAGCCAAATGGTGACAAAGAGCTCTCAGAGGC  
 TGAGAAAAATATGTTGAGTTTCCATGAAGAGCAGGAGGTGTTGCCAGAACTTTCCCTTGCCAACTCCCT  
 TCTCTGATAAAAAATGGATATTCATAAAAAAGTACTGACCCGAGTGTGCCAAAAGCATGATGGCTTGCC  
 TCCTGTCTTCACTGAAGGCCAATGGCTCCCGGGGGCTTTCTGTGAAGTAAAGACCAGATGATAAAGGAT  
 TCTGGAATTTTACAGCAAGTTAGGCTGTTTTGAAATTGCAAAAAATGGAAGGATTTCAAAGGATGTGGTT  
 ATACTTGGTCGAAGCCTGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

ACCN:	NM_023799
Insert Size:	2751 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
RefSeq:	<a href="#">NM_023799.3</a> , <a href="#">NP_076288.1</a>
RefSeq Size:	4797 bp
RefSeq ORF:	2751 bp
Locus ID:	76055
UniProt ID:	<a href="#">Q9EQQ9</a>
Cytogenetics:	19 38.75 cM
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]