

Product datasheet for **RN211943**

Mgea5 (NM_131904) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgea5 (NM_131904) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mgea5
Synonyms:	Ncoat; O-GLCNACASE; OGA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN211943 representing NM_131904
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCAGAAGGAGAGTCAAGCGGCGCTGGAGGAGCGGGAGAGTGAGCGCAACGCCAATCTGCCTCCG
 TCTCGGGGGCTTCGTTGGAGCCGCTGCGAGCTCCGGCCCCGGAGAAGACAACCCCTCGGGAGCTGGGGC
 GGCGGCCGGGACCGGGCGGCCGGCGGGGCCCGCAGGTTCTGTGCGGTGTAGTGAAGGGTTTTATGGA
 AGACCTTGGGTTATGGAGCAGAGAAAAGAGCTCTTTAGAAGGCTTCAGAAATGGGAATTAATACTACT
 TGTATGCTCCGAAGGATGACTACAAACATAGGATGTTTTGGCGAGAGATGATTCAGTGAAGAAGCTGA
 GCAACTTATGACTCTCATCTGCTGCACGAGAATATGAGATAGAATTCATCTATGCTATTTCTCCAGGA
 TTAGATACACTTTTTCTAACCCAAAGGAAGTATCAACATTGAAACGCAAATGGACCAGGTCTCCAGT
 TTGGGTGCAGGTCATTTGCTTTGCTTTTGACGATATTGATCATAACATGTGTGCAGCAGACAAAGAAGT
 GTTCAGTTCTTTGCACATGCACAAGTTTCCATCACAAATGAAATCTATCAGTACCTGGGAGAGCCGGAA
 ACCTTCTCTTGTCCACAGAATACTGCGGCACTTTCTGTTATCCAAGTGTATCTCAGTCTCCTTACT
 TGAGGACTGTGGGTGAAAAGCTGCTACCTGGAATTGAGGTGCTTTGGACAGGTCCAAAAGTTGTTTCAA
 AGAAATCCAGTAGAATCTATTGAAGAAGTTTCTAAGATCATTAAAGAGAGCCCCAGTGATCTGGGATAAC
 ATTCATGCTAATGACTATGATCAGAAGAGGCTGTTTTCTGGGTCCCTACAAGGAAGATCCACAGAGCTCA
 TCCCACGGTTGAAGGGAGTGCTGACTAATCCAAATTTGGAATTTGAAGCCAATATGTTGCCATCCACAC
 CCTTGCCACTTGGTACAAGTCAAACATGAACGGAGTGAGGAAGGACGTGGTGATGACTGACAGTGAAGAC
 AGTACTGTCTCAATACAGATAAAGTTAGAAAATGAAGGCAGTGATGAAGACATTGAGACTGATGTGCTCT
 ACAGTCCACAGATGGCTTTAAAGCTGGCCTTAACGTGAGTGGCTGCAGGAGTTCGGTGTACCGCATCAGTA
 CAGCAGTAGACAGGTTGCACACAGTGGAGCTAAGACAAGCGTAGTGGACGGGACTCCCTTGGTTGCAGCA
 CCTTCTTTAAATGCCACAAGTGTAGTTACAACAGTTTACCAGGAGCCATTATGAGCCAGGGAGCAGCTT
 TGAGTGGTGAAGCAAGAAGAGTCAAGAGCAAGAGTGAAGAAAGAAACAGCCAGATGAGGAACCCATGGAT
 GGTGGTAGAGAAGCAAGAAGAGTCAAGAGCAAGAGTGAAGCAAGAGTGAAGCAAGAGTGAAGCAAGAGT
 AAAATGGCAGAGGAGTTGAAACCAATGGACTGATAAGGAAAGCATAGCCGAGTCAAAAATCCCAAGAGA
 TGCTATGCAGGAAGACTGCATTAAACGACATCGCTCCTATGCAGACAGACGAGCAAGCAACAAAGAGCA
 GTTTGTGCCAGGTCCAAATGAAAAACCTTTGTACGCTGCAGAACCAGTACTCTGGAGGATTTACAGTTA
 CTTGCTGATCTTCTACCTTCTTATGAGCATGGACCCAAAGGAGCACAGATGCTACGGGAGTTCCAGT
 GGCTTCGAGCAAACAGTAGTGTTCAGTGTCAATTGCAAAGGGAAAGACTCTGAAAAAATTTGAAGAATG
 GCGGTCACGAGCAGCAAGTTTGAAGAAATGTGCGCACTAGTGTGGGGATGTTACCCGGCTCTCCAAC
 TGTGCCAACAGGACAATCCTTTATGACATGTAATCCTATGTGTGGGATATCAAGAGTATAATGTCTATGG
 TGAAGTCTTTTGTGAGTGGTTAGGGTGTGCTAGTCAATCTTCAGCACAGTTCTTAATTGGAGACCAAGA
 ACCCTGGGCTTTAGAGGTGGTCTAGCAGGAGAGTTCAGCGTTTGTGCAATTTGATGGAGCAAATGAT
 CTCTTTTCCAACACCCCACTGACTCCTACCTCCAAGTTTATACTATCAGACCTTATTTCCCTAAAG
 ATGAGGCTTCCGTGTACAAGATTTGCAGAGAAAATGATGATGATGGAGTGGGTTTACCTTTCAAAGTCA
 GCCTGACCTTATTGGAGACAAGTTAGTAGGAGGACTGCTTCCCTCAGCCTGGATTACTGTTTTGTCTC
 GAAGATGAAGATGGTATTTGTGGTTATGCCTTAGGCACTGTAGATGTGACCCCTTCATTAAGAAAGTGCA
 AAATTTCTGGATTCCCTTCATGCAGGAGAAGTATACTAAGCCAATGGAGACAAAGAGCTCTCAGAAGC
 TGAGAAAATAATGTTGAGTTTCCATGAAGAGCAGGAGGATTACCAGAACTTTCCCTGCAACTCCCT
 TCTCTGATAAAAAATGGATATTCATAAAAAAGTCACTGACCCAAGTGTGCAAAAAGCATGATGGCTTGC
 TCCTGTCTTCACTAAAGGCCAATGGCTCCCGGGGGCTTTCTGTGAAGTAAAGACCAGATGATAAAGGAT
 TCTGGAATTTTACAGCAAGTTAGGCTGTTTTGAAATTGCAAAAATGGAAGGATTTCAAAGGATGTGGT
 ATACTTGGTCAAGCCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_131904
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">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:	<u>NM_131904.1</u> , <u>NP_571979.1</u>
RefSeq Size:	2751 bp
RefSeq ORF:	2751 bp
Locus ID:	154968
UniProt ID:	<u>Q8VIJ5</u>
Cytogenetics:	1q54
Gene Summary:	plays a role in insulin secretion; may be involved in secretion of other glucose regulated hormones [RGD, Feb 2006]