

Product datasheet for **RN210706**

Mgrn1 (NM_001013964) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgrn1 (NM_001013964) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mgrn1
Synonyms:	RGD1311862
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN210706 representing NM_001013964
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTCCATCCTGAGTCGCCGCATCGCGGGCGTGGAGGACATCGACATTCAGGCCAACTCGGCCATC
 GTTACCCTCCGAAGTCCGCAGGAACTACTTTGCTTCGCACTTTTTCATGGGAGGAGAGAAGTTTGACAC
 TCCCCATCCTGAAGGTTACCTCTTTGGCGAGAACATGGACCTGAACCTTCCTGGGTAGTCGTCCAGTCCAG
 TTCCCCTATGTCACCCCTGCCCCCATGAGCCAGTGAAGACACTCAGGAGCCTGGTAAACATTTCGAAAAG
 ACTCTCTCCGGCTGGTGAGGTACAAAGATGACACAGACAGCCCCACAGAGGACGGCGAGAAGCCCCGCGT
 GCTCTACAGTCTGGAATTCACCTTTGATGCTGATGCCCGTGTGGCTATCACCATTATTGCCAGGCAGTG
 GAGGAGTTGTCAACGGCATGACGGTGTACAGCTGAAGAACCCTTCTCTGCAATCTGAGACTGTCCATT
 ACAAGAGAGGCGTTAGCCAGCAGTTCTCCCTGCCTTCTTCAAGATTGACTTCTCCGAGTGAAGGATGA
 TGAGCTGAACTTTGACCTGGACCGGGTGTGTTCCAGTAGTCATCCAGGCTGTGGTGGATGAAGGAGAT
 GTTGTGGAAGTACTGGCCACGCTCATGTGCTCTTGGCTGCCTTTGAGAAGCACGTGGATGGCAGCTTCT
 CCGTGAAGCCATTAAGCAGAAGCAAATTTGGGACCGGGTCAGCTACCTGCTGCAAGAGATCTACGGCAT
 TGAGAACAAGAACAACCAGGAGACTAAGCCTTCCGACGATGAGAACAGTGACAACAGCAGTGAGTGTGTG
 GTGTGCCCTGTCAGACTTGCGGGACACGCTAATCCTGCCCTGCCGCCACTTGTGCCCTGCACTTCTGTG
 CTGACACGCTGCGGTACCAGGCCAACAACTGCCCATCTGCCGGTGCCTTCCGAGCTCTCCTACAGAT
 CCGGGCTGTACGGAAGAAGCCAGGAGCTCTGTCTCCATCTCCTCAGTCTGTCTTGGCCAAAGTGTG
 GACCACGATGAACACTCTAATTCTGACAGTGTCCACCTGGCTATGAGCCATCTCCTTGTCTCGAGGCAC
 TCAATGGACTACGGGCTGTCTCCCGGCTATCCCATCAGCTCCCCTCTATGAGGAAATCACCTATCGAG
 CATCTCGGACGGTCTTCCAGGCCAGTTGTCCCCTTGTGGACTCGATCGAATCATAGAAAATGGAATA
 CAGAAGGGCAAGACACAGAGCAAGTCTCCAGACAGCACCCCTGCGGTCTCCATCATCTCCATTATGAGG
 AGGATGAGGAGAAGTCTCAGAGGACCCGGAGGCTCCTCTCCACCAAGCGGTGTGGAGCTCGTGTCTCA
 GGAGAGCAGTCCCCTGAGAGTTTCGGAACAGAGGAGGTGGGTGAGCCATCCCTAAAGCAAGGAAGCCGA
 GTACCCTCTATTGATGATGCTCCTGCAGGATGGCAGTCCCAGCATCATGGTTGCAGCCAGCCAGTCCCTC
 CTGCTGACATCTACCTACCAGCCCTGGTCTGAGTCGTGCTCTGTTGGTATAGAGGAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001013964

Insert Size: 1602 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:

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_001013964.1](#), [NP_001013986.1](#)

RefSeq Size: 2287 bp

RefSeq ORF: 1602 bp

Locus ID: 302938

UniProt ID: [Q5XIQ4](#)

Cytogenetics: 10q12

Gene Summary: E3 ubiquitin-protein ligase. Mediates TSG101 monoubiquitination at multiple sites. Plays a role in the regulation of endosome-to-lysosome trafficking. Impairs MC1R- and MC4R-signaling by competing with GNAS-binding to MCRs and inhibiting agonist-induced cAMP production. Does not inhibit ADRB2-signaling. Does not promote MC1R ubiquitination. Acts also as a negative regulator of hedgehog signaling (By similarity).[UniProtKB/Swiss-Prot Function]