

Product datasheet for **MC202619**

Mgrn1 (NM_029657) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgrn1 (NM_029657) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mgrn1
Synonyms:	2610042J20Rik; md; mKIAA0544; nc
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC046830 sequence for NM_029657
 GGAGCGGCCGAGCGGGCGGGCGGGTGGCGGGTGGGTACGCGTTGGTGCGGCCTGTTTTGGGCCA
 TGTCCTGTGAGGACGCCGAGCCGACAACCTCTCCTCTCCGGCTGGCCGGTAGAAACGCGCACCATGGG
 CTCCATCTGAGTCGCCGCATCGCGGGCGTAGAGGACATCGACATACAGGCCAACTCGGCATCGCTAC
 CCTCCGAAGTCCGGAACTACTTTGCTTCGCATTTTTTTCATGGGAGGAGAAAATTTGACACTCCCCATC
 TGAAGGTTACCTCTTTGGAGAGAACATGGACCTGAACCTCCTGGGCAGTCGTCCAGTCCAGTTCCTCA
 TGTCAACCTGCCCCCATGAGCCAGTGAAGACACTGAGGAGCCTGGTGAACATTCGAAAGACTCTCTC
 CGGCTTGTGAGGTACAAAGAAGACGCAGACAGCCCCACGGAGGACGGTGAAGCCCGCGTCTCTACA
 GTCTGGAATTCACCTTTGATGCCGATGCCCGTGTGGCTATCACCATCTATTGTCAGGCGGTAGAGGAGCT
 GGTGAATGGCGTGGCAGTGTACAGCTGTAAAGACCTTCTCTGCAATCTGAGACCGTCCACTACAAGAGA
 GGCGTTAGCCAGCAGTTCTCCCTGCCTTCTTCAAGATTGACTTCTCCGAGTGAAGGATGATGAGCTGA
 ACTTTGACCTGGACCGGGGTGTGTTCCAGTAGTCATCCAGGCTGTGGTGGACGAAGGGGATGTTGTGA
 AGTGACTGGCCACGCTCATGTGCTCCTGGCTGCCTTTGAGAAGCATGTGGATGGCAGCTTCTCCGTGAAG
 CCATTAAGCAGAAGCAAATTGTGGACCGGGTCACTACCTGCTGCAGGAGATCTACGGCATCGAGAACA
 AGAACAACCAGGAGACTAAGCCTTCTGATGATGAGAACAGTGACAACAGCAGTGAAGTGTGTGGTGTCCCT
 GTCAGACCTGCGGGACACACTGATCCTGCCTGCGACACCTGTGCCTCTGCACTTCTGTGCTGACACA
 CTGCGGTACCAGGCCAACAACTGCCCATCTGCCGGCTGCCGTTCCGAGCCCTTCTGCAGATCCGGGCTG
 TGCGGAAGAAGCCAGGGGCCCTGTCTCCATCTCCTTCAGCCCTGTCTTGGCCAAAAGTGTGGACCACGA
 TGAGCACTCTAGTTCTGACAGTATCCCACCTGGCTATGAGCCCATCTCCTTGCTTGGGCACTCAATGGT
 CTACGAGCTGTCTCCCGGCTATCCCATCAGCTCCCCTCTATGAGGAAATCACCTACTCAGGCATCTCGG
 ACGGTCTTTCCAGGCCAGTTGTCCCCTGTGGACTTGAATCGAATCATGGAAAGTGGCTACAGAAGGG
 CAAGACACAGAGCAAGTCTCCAGACAGCACCCCTGCGGTCTCCATCATTCCCATCCATGAGGAGGACGAG
 GAGAAGTCTCAGAGGACTCGGATGCTCCTCCTCCACCGAGCGGTGGGAGCTGGTACTCGGGGAGAGCA
 GCTCCCCTGAGAGTTTCGGAACAGAGGAGGAGATGAGCCGTCCTTAAAGCAAGGGAGCCGAGTACCTCT
 TATTGATGATGCTCTGCAAGATGGCAGTCCGCAGCATCATGGTTGCAGCCAGCCAGTCCCTCCTGTGAC
 ATCTACCTACCAGCCCTGGGTCCTGAGTCGTGCTCTGTTGGTATAGAGGAGTAAGCTGGATGGTCCACCT
 CCATGGAGACGCCACACAGCCTTGGCACCACCAGCTCCCCTGGCCTCTGCTGAGTGGCTTAGTCTGA
 GCCTGGAGTTGCTGAGCTGACCCATTCTGAAAGTCTGGCTTAGCGGGCAACACAGAGCCCTCAGCATCC
 CAAACATTGCCAGGAGGCTTCCCTGGACCCAGCGAGACCCTGGCCTCTTGTCTGCACGCCTCATGTG
 GCCACTGGGATTTGAGGGTCCACAGTGAACCTTGATCAAATTGCACAGTGGGTTGTTCTCCACACACC
 TCCTTTTTTTACGGTCAATATATTTGTAATGGTACAAGATGAAGGACAACAAGTCTCCATGGGCCAC
 GTGCCCTAGAAGGACTCTCCCAACTGTCAAAGCTAATGCTTTGAGCACTTAGCAAACCAGCATAAGAGA
 ATCTACCCATGGAATGTTCTGGAAGGTGGGCAAGTCCAGGTTACAGTTGATGAAGGAAACAGTGCCTGTCT
 GCCTCTCATGTGTGACCCCAAGGCAGCCAGGCTGTCACTGCTGTGTACAGGCTGACACCTTACAGATG
 TCCTGACCATGGGTGACCCTCCTCGGAGCGTCCAGATCCCCTCCTGCTCTGCTCTATTACCTACTAGTGG
 TCCCTGGCAGCTGTGGGCAAGGCTGGGTAGTCAGACTGTTAACACCACAGTCCCTAGCAGTGGTCAATG
 TCCAGTTCCTCCGACAGGTCTGCTTCACTCACATCCTACCCGCTGCCAAGGTGGCGTTTTGTGCTTG
 CAGGGCAGCACTGCCACCACCTGCCAGGAGGAGCCTGAGCAGTTCATAGCAGATCCGTTGCCAGTT
 ACCTGGCCTGTAAGCTTCTTACTGATTGATTGTCTAAGGCTCCTGTGAGGCCACCTAGAAGCAGGCTC
 CTAGTGATACTTTGTTTCCAAGGCAGAAGTGGCCATGAGTGGCCCCAGAGCAGAGGTGCCCCAGGCAAGT
 GCAGCTCCCTGGTGGGTTGGTAGAGGACCTCAGCTTAAGGAACTGCCCTGCCACTACCAGGTGACAG
 CCTGTAGCAGTGCATGGAGACCCCTTAGGCTCAGGGCTGCTCGAGCTCTGACTTAACCCTGCTCCTTC
 CTAGCACAGCTCTGCACATCCATCTCTCTCTTGTGTAATGCACATATGTGCACACATGTCAGCATGTG
 CATGCTCACTCCCCACTTCTCACCTGCCAACATCCTGGCCTCTGGCCGTGGCACTGGTGGCAGTACTTT
 GAAAGATGGGGTGCAGCCTACACACTTACCTGTCTCAGACTCACATGACTATCATCTGATGACTCTGA
 TTGGCTAGTTGGGTTCAATTTTTACTGTATATTTATAGTAATAAAATCATGCAGCAATAAAAAAAAAAAAAA AAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: NM_029657
Insert Size: 1599 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:	BC046830 , AAH46830
RefSeq Size:	3165 bp
RefSeq ORF:	1599 bp
Locus ID:	17237
UniProt ID:	Q9D074
Cytogenetics:	16 2.48 cM
Gene Summary:	<p>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 (By similarity). Acts also as a negative regulator of hedgehog signaling (PubMed:29290584). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>