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Product datasheet for MC228205

Mgrn1 (NM_001252437) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgrn1 (NM_001252437) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mgrn1
Synonyms:	2610042J20Rik; md; mKIAA0544; nc
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC228205 representing NM_001252437
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCTCCATCCTGAGTCGCCGCATCGCGGGCGTAGAGGACATCGACATACAGGCCAACTCGGCCTATC
GCTACCCTCCGAAGTCCGCAGGAAACTACTTTGCTTCGCATTTTTTCATGGGAGGAGAGAAATTTGACAC
TCCCCATCCTGAAGGTTACCTCTTTGGAGAGAACATGGACCTGAACTTCCTGGGCAGTCGTCCAGTCCAG
TTTCCCTATGTCACCCCTGCCCCCCATGAGCCAGTGAAGACACTGAGGAGCCTGGTGAACATTCGCAAAG
ACTCTCTCCGGCTTGTGAGGTACAAAGAAGACGCAGACAGCCCCACGGAGGACGGTGAAAAGCCCCGCGT
GCTCTACAGTCTGGAATTCACCTTTGATGCCGATGCCCGTGTGGCTATCACCATCTATTGTCAGGCGGTA
GAGGAGCTGGTGAATGGCGTGGCAGTGTACAGCTGTAAGAACCCTTCTCTGCAATCTGAGACCGTCCACT
ACAAGAGAGGCGTTAGCCAGCAGTTCTCCCTGCCTTCTTTCAAGATTGACTTCTCCGAGTGGAAGGATGA
TGAGCTGAACTTTGACCTGGACCGGGGTGTGTTTCCAGTAGTCATCCAGGCTGTGGTGGACGAAGGGGAT
GTTGTGGAAGTGACTGGCCACGCTCATGTGCTCCTGGCTGCCTTTGAGAAGCATGTGGATGGCAGCTTCT
CCGTGAAGCCATTAAAGCAGAAGCAAATTGTGGACCGGGTCAGCTACCTGCTGCAGGAGATCTACGGCAT
CGAGAACAAGAACAACCAGGAGACTAAGCCTTCTGATGATGAGAACAGTGACAACAGCAGTGAGTGTGTG
GTGTGCCTGTCAGACCTGCGGGACACACTGATCCTGCCCTGCCGACACCTGTGCCTCTGCACTTCCTGTG
CTGACACACTGCGGTACCAGGCCAACAACTGCCCCATCTGCCGGCTGCCGTTCCGAGCCCTTCTGCAGAT
CCGGGCTGTGCGGAAGAAGCCAGGGGCCCTGTCTCCCATCTCCTTCAGCCCTGTCTTGGCCCAAAGTGTG
GACCACGATGAGCACTCTAGTTCTGACAGTATCCCACCTGGCTATGAGCCCATCTCCTTGCTTGAGGCAC
TCAATGGTCTACGAGCTGTCTCCCCGGCTATCCCATCAGCTCCCCTCTATGAGGAAATCACCTACTCAGG
CATCTCGGACGGTCTTTCCCAGGCCAGTTGTCCCCTTGCTGGACTTGATCGAATCATGGAAAGTGGCCTA
CAGAAGGGCAAGACACAGAGCAAGTCTCCAGACAGCACCCTGCGGTCTCCATCATTCCCCATCCATGAGG
AGGACGAGGAGAAGCTCTCAGAGGACTCGGATGCTCCTCTCCCACCGAGCGGTGTGGAGCTGGTACTGCG
GGAGAGCAGCTCCCCTGAGAGTTTCGGAACAGAGGAGGGAGATGAGCCGTCCCTAAAGCAAGGGAGCCGA
GTACCCTCTATTGATGATGTCCTGCAAGATGGCAGTCCGCAGCATCATGGTTGCAGCCAGCCAGTCCCTC
CTGCTGACATCTACCTACCAGCCCTGGGTCCTGAGTCGTGCTCTGTTGGTATAGAGGAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001252437

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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001252437.1, NP_001239366.1
RefSeq Size:	3293 bp
RefSeq ORF:	1602 bp
Locus ID:	17237
UniProt ID:	Q9D074
Cytogenetics:	16 2.48 cM
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 (By similarity). Acts also as a negative regulator of hedgehog signaling (PubMed:29290584). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes 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.