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Product datasheet for RC229588

MOG1 (RANGRF) (NM_001177801) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	MOG1
Synonyms:	HSPC165; HSPC236; MOG1; RANGNRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229588 representing NM_001177801
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCCACGAGAGACTGCCCGCTGTTCGGGGGCGCCTTTTCCGCCATCCTCCCCATGGGGGCCATTG
ACGTAAGCGACCTCCGACCGGTCCCGGACAATCAAGAAGTTTTCTGCCATCCCGTGACGGACCAGAGCCT
GATAGTGGAACTTCTCGAGCTGCAGGCCCACGTACGGGGCGAAGCGGCTGCGCGGTACCACTTTGAGGAT
GTTGGTGGCGTGCAGGGGGCTAGGGCTGTCCATGTGGAGTCTGTTCAGCCTCTCAGTTTGGAGAACCTGG
CCCTGAGGGGCCGCTGTCAAGAAGCCTGGGTCCTCTCTGGCAAGCAGCAGATAGCTAAGGAAAACCAGCA
GGTAGCAAAGGACGTGACACTTCATCAGGCCTTGCTGAGGCTGCCCCAGTACCAGACTGATCTCTTGCTT
ACCTTCAATCAGCCCCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229588 representing NM_001177801
Red=Cloning site Green=Tags(s)

MEPTRDCPLFGGAFSAILPMGAIDVSDLRPVPDNQEVFCHPVTDQSLIVELLELQAHVRGEAAARYHFED
VGGVQGARAVHVESVQPLSLENLALRGRCQEAWVLSGKQQIAKENQQVAKDVTLHQALLRLPQYQTDLLL
TFNQPP

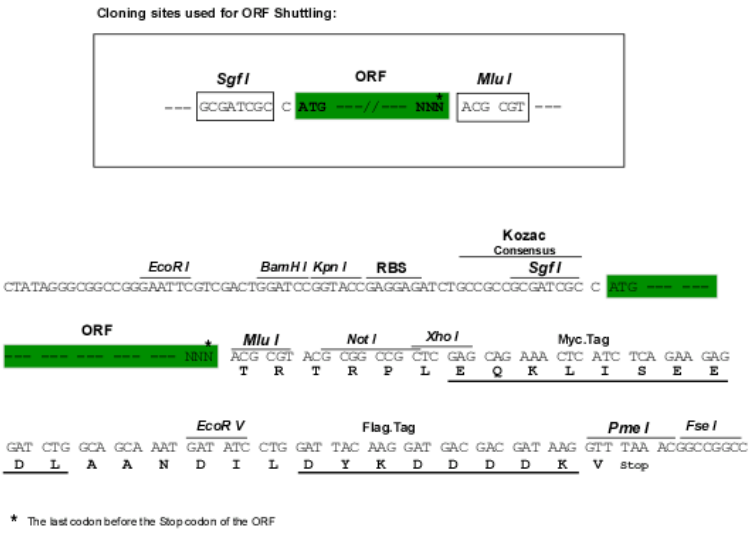
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1450_a11.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001177801

ORF Size: 438 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001177801.2

RefSeq ORF: 441 bp

Locus ID: 29098

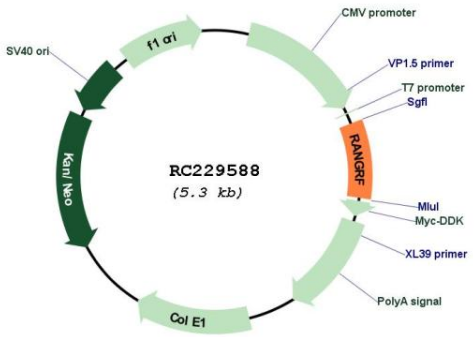
UniProt ID: Q9HD47

Cytogenetics: 17p13.1

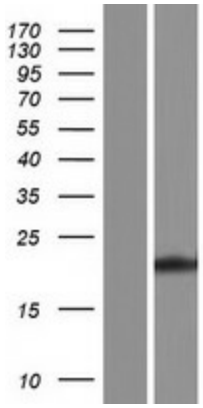
MW: 16.6 kDa

Gene Summary: This gene encodes a protein that has been shown to function as a guanine nucleotide release factor in mouse and to regulate the expression and function of the Nav1.5 cardiac sodium channel in human. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010]

Product images:



Circular map for RC229588



Western blot validation of overexpression lysate (Cat# [LY432588]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229588 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).