

Product datasheet for MR211429

1110037F02Rik (BC033309) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	1110037F02Rik (BC033309) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	1110037F02Rik
Synonyms:	4930422M05Rik; Kiaa1429; mKIAA1429
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211429 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGGACTCGTCTATGGAGCTGCTATTTTTAGATACTTTTAAACATCCGAGCGCTGAGCAAAGTT
CTCATATAGATGTGGTTCGTTTTCCGTGTGTGGTTTATATCAATGAAGTCCGAGTTATACCCCGGGAGT
ACGAGCCCATAGTGGCTTACCTGACAACAGAGCATATGGGAAACATCTCCTCACACATTTCAACTTGAC
TTATTCTTCAATAATGTAAGCAAACCAAGTCTCCAGTTTTTATAGGTTGGGAAGCCTGGAATATGATG
AGAATACGTCTATCATCTTTAGACCAAACCTCGAAGGTAATACTGATGGTCTGGTACTAAGAGGCTGGTA
CAACTGTCTGACCTGGCAATATATGGATCGGTAGATAGAGTGATAAGCCATGACAGAGACTCTCCACCA
CCTCCACCTCCACCTCCACCTCTCCAGCCACAGCCGACTTTGAAAAGGAATCTAAAGCATGCTGATG
GTGAGAAAGAAGATCAGTTAATGGAAGTCTCCAAGACCCAGCCACGGGGACCAAGAAGTCTCCTCGG
ACCTCCTCCACCTGATGACGATGAGGACGACCCTATGTCTTTGCCAGTGTCTGGTGACAAAGAAGAGGAT
GTTCCCATCGAGAAGATTACTTTGAGCCATTTCTCTGATAGGAATCTGTCCCGCAGGAAGGTCAGT
ATTCGGATGAAGGAGAGGTAGAAGAGGAACCGCAAGAAGAGGGAGAAGATGATGAAGATGATGTGGATGT
AGAAGAAGAAGAGGATGAAGATGAGGATGACTGCCATACAGTAGATAGTATCCCTGATGATGAGGAGGAA
GATGAAGAGGAAGAAGGTGAAGAGGATGAAGAAGGTGAAGGGGACGATGGCTACGAGCAGATCTCTAGTG
ATGAAGATGGAATTGCTGACTTGGAACGTGAAACATTCAAGTATCCAAACTTCGATGTTGAATATACTCC
AGAAGACCTGGCATCTGTCCCTCTATGACGTATGACCCGTATGACAGGGAGCTGGCACCACTCTTGAT
TTCAGCTGTCCATACAAAACACTTTTTGAAATTGAAATCAGTAGAATGAAGGATCAAGGTCCAGATAAAG
AGAATTCAGGGCAGTAGAAGCCTCGATGAAGTTAACTGAACTGCTAGACCTGTATCAGGAAGACAGGGG
TGCAAAGTGGGTGACGGCTCTAGAAGAAATCCAAGTCTAATTATAAAGGACTAAGCTATTTGCAATTG
AAAAACACAGAACAAGACTCCCTTGCCAGTTGGTAGACTGGACAATGCAAGCTTTAAATTTACAAGTAG
CCTTTGACAGCCATAGCCTTAAATGTCCGACAGCTCAAAGCTGGGACCAAGCTAGTGACCTCATTAGC
AGAATGTGGGGCTCCAGGAGTCACAGAATTGCTACAAGCAGGAGTGATCAATGTATTGTTGATCTCTTA



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TTTGCTGATCATGTCTCATCTTCCCTTAAGTTAAATGCTTTTAAAGCTTTGGACAGTGTCATTAGCATGA
 CAGAAGGAATGGAGGCTTTTTAAGAAGCACCCAAAATGAGAAAAGTGGCTATCAAAGACTTCTGGAACT
 CATACTTCTGGATCAGACTGTGAGGGTTGTCACTGCTGGCTCAGCTATTCTTCAAAAATGCCATTCTAT
 GAAATCTTGTGAGAGATTAAGAACTTGGTGACCACATAGCAGAGAAGACTTCAGCTGTTCTAACCACA
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 CCACAATAGCCCGGATTACCGGGCTCCAGAGCGGGATGACCCGTACCCTGTCTTTAGAGGACCTGG
 GTTTGGTTTTTCAGCACTCAATAGTGGCTCACAGCCATCAGCTACTCCAGTTCAGAGGGTCCAGTGCCCT
 CTTCTGGCCTATGTGGGCACTGTACACACATGGTACACAGACACATGCAAGCAAAAATACTCATGACATAA
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 GCAGTGCATCACAGAGCTGTTACGCCATTTCCAGCGGTGTACAGCCAGTGAAGAACTGACCATTCTGAT
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 ATGCGAAATTGCAAGAAGTGGCAAATGGCTTGAACCTCTGAAAACCTCAGATTTGAAATTAAGTGCAT
 CCCAAATCTAATTGAATATGTTAAACAGAATATTGATAACTTGATGACTGCAGAAGGAGTTGGCCTTACC
 ACTGCCTACGTGTTCTGTAAATGTGGCATGTCCACCACCTCTCAGTCTGCCCTTGTATGCTTACAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATGAGTTTAA

Protein Sequence:

>MR211429 protein sequence
 Red=Cloning site Green=Tags(s)

MAVDSSMELLFLDTFKHPSAEQSSHIDVVRFPVYVINEVRVIPPVRAHSLPDNRAYGETSPHTFQLD
 LFFNNSKPSAPVDFRLGSLYDENTSIIIFRPNKVNVDGLVLRGWYNCLTLAIYGSVDRVISHDRDSSP
 PPPPPPPPPQPPTLKRNLKHADGEEKEDQFNQSPRPQPRGPRTPPPPPPPDDDEDDPMSLPVSGDKEED
 VPHREDYFEPISPDNSVPQEQYSDEGEVEEPEQEEGEDDEDDVDVEEEDEDEDDCHTVDSIPDDEE
 DEEEEGEEDDEEGDDGYEQISSDEDGIADLERETFKYPNFDVEYTPEDLASVPPMTYDPYDRELAPLLY
 FSCPYKTTFEIEISRMDQGPDKENSGAVEASMKLTLLDLQEDRGAKWVTALEEIPSLIIKGLSYLQL
 KNTEQDSLQGLVDWTMQALNLQVAFRQPIALNVRQLKAGTKLVTSLAECGAPGVTELLQAGVINLFDLL
 FADHVSSSLKLNFAKALDSVISMTEGMEAFRSTQNEKSGYQRLELILLDQTVRVVVTAGSAILQKCHF
 EILSEIKRLGDHIAEKTSAVPNHSEPDQTDVAVLERANPDYENEVEASMDMDLLESSIISEGEIEKLTNL
 LEEVFHVMETAPHTMTQPPVKSFPPTIARITGPPERDDPYVPLFRGPGFGFQHSIVAHSHQLLQFQRVQCP
 LLAYVGTVHTWYDTCKQNTDRIYRSHHFLELVTLILLSIPITSAHQGVLQATKDVLFKLAQSQKGLLF
 FMSEYEATNLLIRALCHLYDQDEEGLQSDGADDAFALWLQDSTQTLQCITELFSHFQRCTASEEDHSD
 LLGLTHNLVLYITFNPVGRSAVGHVFSLDKNLQSLITLMEYYSKEALGDSKSKSVAYNYACVLTLLVVAQS
 SSGVQMLEQHAASLLKCKADENNAKLQELGKWLLEPLKLNRFEINCPNLIEYVKQNIIDNMLTAEGVGLT
 TALRVLCNVACPPPLSLPFDVLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: BC033309

ORF Size: 3009 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.

RefSeq: [BC033309](#), [AAH33309](#)

RefSeq Size: 3139 bp

RefSeq ORF: 3011 bp

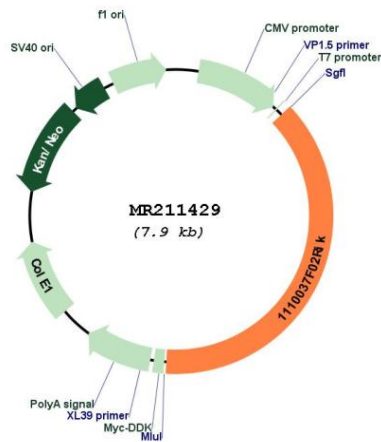
Locus ID: 66185

Cytogenetics: 4 A1

MW: 112.4 kDa

Gene Summary: Associated component of the WMM complex, a complex that mediates N6-methyladenosine (m6A) methylation of RNAs, a modification that plays a role in the efficiency of mRNA splicing and RNA processing. Acts as a key regulator of m6A methylation by promoting m6A methylation of mRNAs in the 3' UTR near the stop codon: recruits the catalytic core components METTL3 and METTL14, thereby guiding m6A methylation at specific sites. Required for mRNA polyadenylation via its role in selective m6A methylation: m6A methylation of mRNAs in the 3' UTR near the stop codon correlating with alternative polyadenylation (APA).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211429