

Product datasheet for **MR206469**

1810007M14Rik (BC014838) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	1810007M14Rik (BC014838) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	1810007M14Rik
Synonyms:	1810007M14Rik; C21orf66; Gcfc; Gcfc1; Pax3/7bp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206469 representing BC014838 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACCAATCTTGATTCCTTTGGACGTGATCGGGCACTTTATCAAGAACATGCAAAACGTCGGATTG
 CAGAGCGGAAGCCAGGAGGACTCGCCGTAGGCAAGCCAGAGAGCAAACCGGTCAGATGGCAGATCACCT
 GGAAGGCTGTCCAGTGATGATGAAGAGACGTCTACAGATATTACTAATTTCAATCTGGAGAAAGATCGA
 ATTTTGAAGAGTCTAGCAAAGTTTTGAAGATGTCCTTGAGAGTTTCTATTCAATTGACTGCATTAAG
 CACAGTTTGAAGCATGGCGTTCAAATACTACATGTCCTATAAGGATGCTTATATTGGTCTTTGTCTGCC
 CAAACTGTTCAACCCCTAATCAGACTTCAGCTTCTCACCTGGACTCCTCTTGAGGCAAAATGCCGTGAC
 TTTGAAACCATGCTGTGTTTGAATCTCTGCTGTTCTATGGCTGTGAAGACCGAGAGCAGGAGAAGGATG
 AGGCTGACGTTGCTCTGCTGCCACCATTTGTTGGAAGGTCATTCTCCCAAGCTGACAGTGATAGCTGA
 AACCATGTGGGATCCCTTTTCTACAACACAGACTTCAAGGATGGTTGGAATCACAATGAAATTAATAAT
 GGCTACCCCTCAGTAGTCAATGCAGACAATAAAACACGCAGGTATACCTTAAAGCTCTTTTACTGAGGA
 TGAGAAGAACTTTAGATGATGATGATTTATGCCCTATATCCCAAAATGTCTTAGAAAATAAAATTC
 TGGGCTTACTTATTTTTCAACGACAGTTTTGGTCTGCTGTTAAGCTATTGGGAAATTTTCTTCAGTGG
 TATGGCATTTTCTCAAACAAAACCTTTCAGGAGTTATCAATAGATGGCTTGTTAAACAGATACATCCTTA
 TGGCTTTTCAGAACTCAGAATACGGAGATGACAGCATCAGAAAAGCCCAAAATGTAATCAACTGTTTCCC
 TAAACAGTGTTTGTGAATCTGAAAGGAGAAAGAACTATTTCTCAGTTAGAAAATTTTGGCGATATCTT
 GTACATTTAGCAGATACAATTTACAGGAACAGTATTGGGTGCTCTGATGTGAAAAAAGAAATGCAAGGG
 AAAATATAAACAGATAGTAAACTTCTTGCAAGTGTTGGGCTTTGGATCACGCTATATCTGTTGCAAG
 TGACCACAATGTGAAGGAAGTCAAGTCTCTGATTGAAGGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR206469 representing BC014838
Red=Cloning site Green=Tags(s)

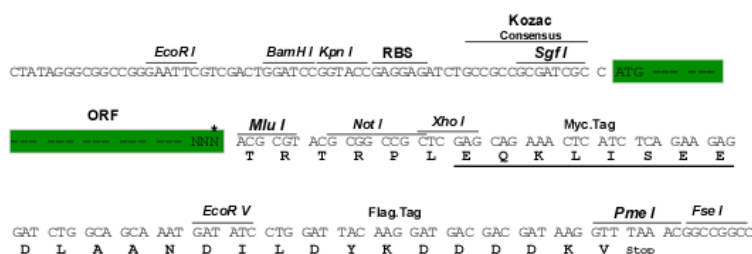
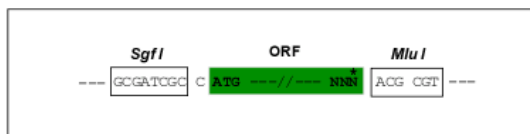
MAPNLSDFGRDRALQYEHAKRRIAEREARRTRRRQAREQTGMADHLEGLSSDDEETSTDITNFNLEKDR
ILKESKVFEDVLESFYSIDCIKAQFEAWRSKYMSYKDAYIGLCLPKLFNPLIRLQLLTWTPLEAKCRD
FETMLWFESLLFYGCEDREQEKDEADVALLPTIEKVILPKLTVIAETMWDPFSTTQTSRMVGITMKLIN
GYPSVNVADNKNQTVYLKALLRLMRRTLDDDVFMPLYPKNVLENKNSGPYLFQRFQFWSSVKLLGNFLQW
YGIFSNNLTQELSIDGLLNRILYIMAFQNGYGGDSIRKAQNVINCPKQFVNLKGERTISQLENFCRYL
VHLADITYRNSIGCSDVEKRNARENINKOYVKLLASVRLDHAISVADSHNVKEVKSILIEGK

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC014838

ORF Size: 1233 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: [BC014838.1](#)

RefSeq Size: 1414 bp

RefSeq ORF: 1235 bp

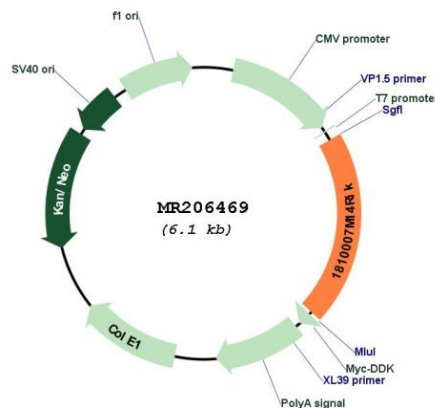
Locus ID: 67367

Cytogenetics: 16 C3.3

MW: 51.8 kDa

Gene Summary: Adapter protein linking the transcription factors PAX3 and PAX7 to the histone methylation machinery and involved in myogenesis. Associates with a histone methyltransferase complex that specifically mediates dimethylation and trimethylation of 'Lys-4' of histone H3. Mediates the recruitment of that complex to the transcription factors PAX3 and PAX7 on chromatin to regulate the expression of genes involved in muscle progenitor cells proliferation including ID3 and CDC20.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206469