

Product datasheet for MR206287

2410127L17Rik (BC092281) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2410127L17Rik (BC092281) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	2410127L17Rik
Synonyms:	2410127L17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206287 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGCGACGACAGCGCTCCGCCCGCTCTCAACCGGCCAGGACGGCGGGCGAAGCGAGGACGTGG
AGGTGCAGTTCTCGCCGGGCGTTTGGGCTCGGCCGCGCTCGGGGCCCGCGCGCCGACCCGCGGA
GGACGAGGAGCGGCTGGAGCGCGAGCACTTCTGGAAGGTCATCAACGCGTTCCGCTACTACGGCACCAGC
ATGCATGAACGAGTGAACAGAACAGAAAGACAGTTTCGGTCCCTCCAGAGAACCAGCAGAAACTGCTTC
CTCAGTTTCTCTTCACTTGGACAAGATCCGGAATGCATTGACCATAATCAGGAAATACTGCTGACCAT
TGTGAATGATTGCATACATATGTTTCGAAAATAAAGAATATGGAGAAGATGCCAATGGAAAAGATTATGCCA
GCATCTACATTTGACATGGATAAGTTAAAATCTACACTGAAACAGTTTGTAAAGACTGGAGTGAGACCG
GGAAAGCAGAAAGGGACGCTGTATAAGCCAATCATTAAAGAGATTATCAAAAATTTTCCAAAGGAGAG
ATGGGATCCTTCTAAAGTAAATATTCTGGTACCTGGTCTGGACTAGGAAGATTGGCCTGGGAAGTAGCT
ATGCTAGGTTATGCTTGTCAAGGAAATGAATGGAGTTTTTTTATGCTCTTTTCTTCCAACCTTGTACTCA
ACAGATGTTCCGAAATTAACAAATATAAACTTTATCCCTGGATCCATCAGTTTAGCAATAATCGGAGATC
AGCTGATCAGATCCGACCCATTTCTTCCCTGATGTTGACCCACAGCTTCTCCTCGTTCTAACTTT
TCCATGACAGCAGGAGACTTTCAGGAGATTTACTCTGAATGCAATGCCTGGGACTGATTGCCACCTGTT
TCTTCATAGACACAGCTCACAATGTAATTGATTATATTGATACGATATGGAGAATACTCAAGCCAGGTGG
AATCTGGATAAATCTTGGTCTCTACTATACCATTTTGAATCTGGCAATGAACTGTCTATAGAAATG
AGCTATGAGGATATAAAAATGTTGTTCTTTCAGTATGGATTTTCAGCTAGAGGTGGAGAAAGAATCTGTAT
TGTCACATATACTGTGAATGATCTCTATGATGAAATACTACTATGAGTGTGTTTTGTTTGGTCCG
GAAGCCACAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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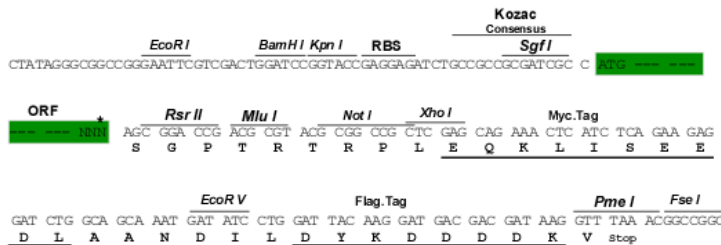
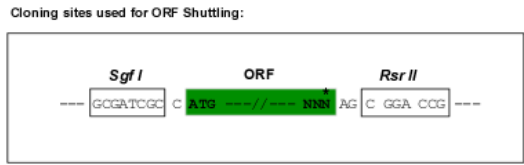
Protein Sequence: >MR206287 protein sequence
Red=Cloning site Green=Tags(s)

MQRRQRAPPASQPAQDGGRESDVEVQFSAGRLGSAAPAGPPARGTAEDEERLEREHFWKVINAFRYYGTS
 MHERVNRTERQFRSLPENQQKLLPQFPLHLDKIRKCIDHNQEILLTIVNDCIHMFFENKEYGEDANGKIMP
 ASTFDMDKLSTLKQFVRDWESETGKAERDACYKPIIKEI IKNFPKERWDP SKVNILVPGAGLGR LAWEVA
 MLGYACQGNWSFFMLFSSNFVLRNCSEINKYKLYPWIHQFSNNRRSADQIRPILFPDVP HSLPPGSNF
 SMTAGDFQEIYSECNWDCIATCFFIDTAHNVIDYIDTIWRILKPGGIWINLGPLLYHFENLANELSIEL
 SYEDIKNVVLQYGFQLEVEKESVLSITYVNDLSMMKYYYECVLFVVRKPKQ

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: BC092281

ORF Size: 1200 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: [BC092281](#), [AAH92281](#)

RefSeq Size: 1485 bp

RefSeq ORF: 1202 bp

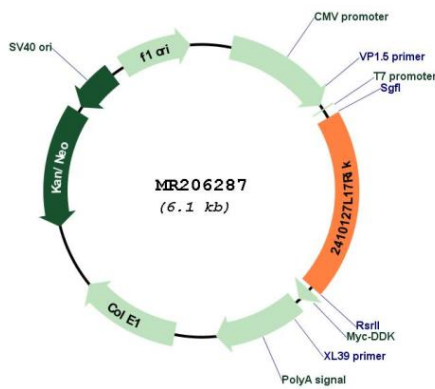
Locus ID: 67383

Cytogenetics: 19

MW: 46.3 kDa

Gene Summary: N-methyltransferase that mediates the formation of anserine (beta-alanyl-N(Pi)-methyl-L-histidine) from carnosine. Anserine, a methylated derivative of carnosine (beta-alanyl-L-histidine), is an abundant constituent of vertebrate skeletal muscles. Also methylates other L-histidine-containing di- and tripeptides such as Gly-Gly-His, Gly-His and homocarnosine (GABA-His).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206287