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Product datasheet for MG206876

5830415F09Rik (BC092543) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5830415F09Rik (BC092543) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	5830415F09Rik
Synonyms:	5830415F09Rik; AV014846; Nap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206876 representing BC092543
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCGGCTTGGAGAAGCAGGGCTCGTGTGCTACGGCGGCCCCATGTGGGTGCGTTCAGCCGGTCCTGG
AGGCAGGGAATCTTTTAACTGAGCCAATAGGGTACTTGGAATCATGTTTCCCAGCCAAGATTGGCACTCC
AAGGCAGCCATCCATCTGTAGCCACTCCAGAGCCTGTTTGAAGATCAGAAAGAACATCTTTAATAACCCT
GAGCATTCCTTGATGGGCCTAGAAGAGTTTTCTCATGTTTGGATTTTGTTTGTTTTTCACAAAAATGGCC
ATTTGAACTACAAGGCAAAAGTGCAGCCGCCCAGGCTGAATGGGGCAAAGACTGGAGTGTTCTCCACACG
GAGCCCTCATCGCCCTAATGCCATAGGGCTGACGCTGGCCAAGCTGGAGAAGGTGGAAGGTGGAGCTGTC
TACCTGTCTGGAGTTGACATGATAGACGGCACACCTGTGCTAGACATAAAGCCCTACATTGCTGACTACG
ACTCACCACAGAACCTCAGTGTACACAATGACCACCATAAGCTGAGGGCTGAGGCCCAGGTTGATGGCAC
GGCCAACAGTTGTGACCAGCTGCTGCTCTCAGGGCGTGGGAAAGTACAGCCTCGCCAGAGCACCAAGGAG
AGACCGAAATGCCTTGAAGACAGGACCTCAGGAGAAAACTCTCAGAAGTCCAGAGACATGTCAGAAATCC
AGCACACTTTGCCAGAAGACAGAGAGAGAGCGTTGGATCTGGCACTGGAACCAAGCCGAGGTGAGAGCAT
GGATATGCCCGAAAATCAGCTTGGCCCACCGGAACTGAAGAGCTTTCTGGAAGAAGGCACAGATAGACCA
AGGAAAGTAGAAGGTGCCTTGGTCCTGCCGGGGAGCAGTGCAGAAACACAGTGGGATGCTTCCTACCGTG
CCAGGACAGCTGACAGAGTGCCCTACAGTGTTGTCCCCAGCTGGGTGACAGAGGCTCCTGTAGCCCCTTT
ACAAGTCCGGTTTACTCCTCACGCAGAGATGGATCTGAGGAAGCTCAATTCAGGAGATGCTAGTCAGCCG
TCATTTAAGTACTTCCACTCCGCAGAGGAAGCCAAGCGTGCCATTGAGGCTGTGCTGTCAGCAGATCCTC
GGTCTGTGTACCGCCGGAAGCTCTGCGAGGACCGCCTTTTCTTCTTCACTGTGGACACAGCACATGTCAC
CTGCTGGTTTGGTGATGGCTTCGCAGAGGTTGTGAGGATTAAACTGGCTTCTGAGTCTGTTCAGGTGGCT
GACCCTGAGGAATCCTTGGCGGCCCTGGGGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

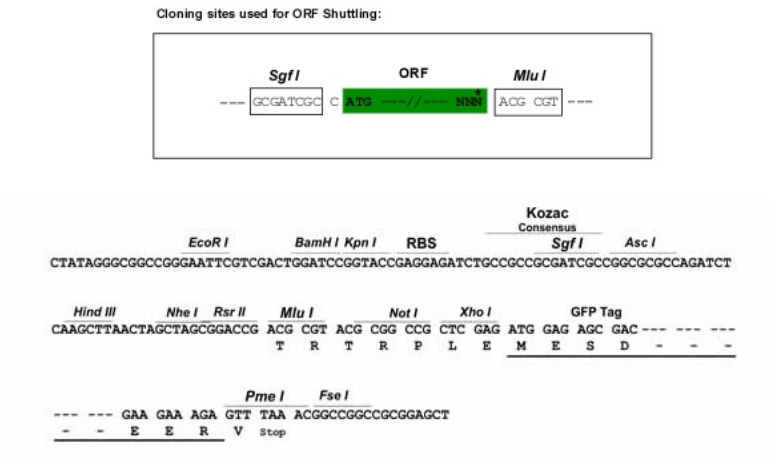
>MG206876 representing BC092543
Red=Cloning site Green=Tags(s)

MRGLEKQGSCATAAPCGCVQPVLEAGNLLTEPIGYLESCFPAKIGTPRQPSICSHSRACLKIRKNIFNNP
EHSLMGLEEFSHVWILFVFHKNGHLNYKAKVQPPRLNGAKTGVFSTRSPHRPNAIGLTLAKLEKVEGGAV
YLSGVDMIDGTPVLDIKPYIADYDSPQNLSVHNDHHKLRAEAQVDGTANSCDQLLLSGRGKVQPRQSTKE
RPKCLEDRTSGENSQKSRDMSEIQHTLPEDRERALDLALEPSRGESMDMPENQLGPPELKSFLEEGTDRP
RKVEGALVLPGSSAETQWDASYRARTADRVPYSVVPSWVTEAPVAPLQVRFTPHAEMDLRKLNSGDASQP
SFKYFHSAEEAKRAIEAVLSADPRSVYRRKLCEDRLFFFTVDTAHVTCWFGDGFAEVVRIKLASESVQVA
DPEESLAALGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC092543

ORF Size: 1293 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: BC092543.1

RefSeq Size: 1561 bp

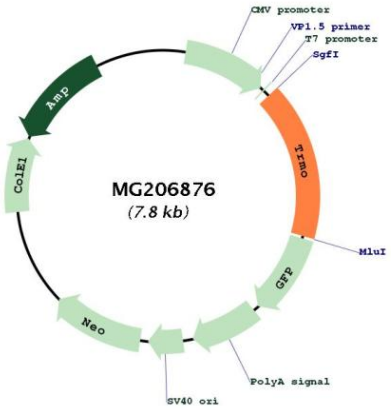
RefSeq ORF: 1295 bp

Locus ID: 74753

Cytogenetics: 4 B1

Gene Summary: S-adenosyl-L-methionine-dependent methyltransferase responsible for the addition of the methyl group in the formation of N6-methyl-N6-threonylcarbamoyladenosine at position 37 (m(6)t(6)A37) of the tRNA anticodon loop of tRNA(Ser)(GCU). The methyl group of m(6)t(6)A37 may improve the efficiency of the tRNA decoding ability. May bind to tRNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206876