

Product datasheet for **MR210794**

Suv420h1 (BC075709) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Suv420h1 (BC075709) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Suv420h1
Synonyms:	MGC18702, Suv4-20h1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR210794 representing BC075709
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGTGGTTGGGAGACTCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG
 ACCATCAGCAGAATCAATCAAAATTACAGCAGCACTCGGGCAAGGACACCCTGAAGACCGGCAGAAACGC
 CGTTGAGAGGCGGTCCAACAGATGTCATGGTAACTCGGGATTTGAAGGGCAGAGCCGCTATGTGCCGTCC
 TCTGGAATGTCCGCCAAGGAGCTCTGTGAGAACGATGACTTAGCAACCAGTTTGGTTCTTGATCCCTACT
 TAGGTTTTTACACACAAAAATGAACACTAGATTTTCGGCTATAAAAAGGAAGGCAAGAAGAGCTAAAGGA
 AGTAATTGAACGCTTTAAGAAAGATGAACACTTAGAGAAAGCTTTCAAATGTTTGACTTCTGGGGAATGG
 GCACGGCATTATTTCTCAACAAAAACAAAATGCAGGAGAAATATTCAAGGAACATGTCTTTATTTACT
 TGCGGATGTTTGAACACTGACAGTGGATTTGAAATACTGCCTTGTAAATAGATATTCTTCAGAACAAAAATGG
 AGCCAAGATAGTTGCAACAAAAGAGTGGAAACGAAATGACAAAAAGAATTACTGGTGGGTTGTATTGCC
 GAACCTTCAGAAAATTGAGGAGAACATGCTACTTAGACACGGAGAAAACGACTTCAGTGTCATGTATTCCA
 CAAGGAAAAAATTGTGCTCAACTCTGGCTCGGTCCTGCTGCATTTATAAATCATGATTGCAGACCTAACTG
 TAAGTTTGTGCTAACTGGTTCGAGATACAGCATGTGTTAAGGCTCTGAGAGATATTGAACCTGGAGAAGAA
 ATTTCTTGTTACTATGGAGATGGCTTTTTTGGAGAAAAAATAGATTCTGCGAATGTTATACTTGTGAAA
 GACGGGAACTGGTGCTTTTAAATCACGAGTAGGACTGCCTGCGCTGCTCTGTATCAATAGCAAATA
 CGGACTTAGAGAAACAGATAAACGCTTAAATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAAACTCAGAC
 AGTCAGTCTGTCAGCTCTAACACAGATGCAGACACCCTCAGGAAAAAGACAATGCAACTCTAATCGAA
 AATCTTCAGTTGGTGTGAAAAAGAGCAGCAAGAGTCGAGCTCTGACGAGGCGCTCCATGCCGAGTCCC
 GGCTGCTTCCAACCTACCTCAGCCAAGCTAGTGCACACCAACAATCCCCGGGTACCAAAGAAACTGAGA
 AAGCCGGCAAAGCCTTTACTCTCCAAGATCAGACTGCGGAATCACTGCAAGCGGCTGGACCAAGAAGCG
 CATCCCGCAAGCTCGAGATGGGAGCTTAGTGCTTAAGGAGCCAAAGTTGTGCTATATAAAAAATTTGCC
 AATTAAGAAAGAAAGGGAGCCAGAGGGACCAGCCATGCTGCAGTGGGAGTGGGTGCTTGACTAGACAT
 GCTGCGAGAGAACACAGGACAGTATGGGAGAGGTGCTCATTGCGAGGGCGACAGTTTGCCTGCACCT
 ACACAACCCGGCGCTCTTTGAGGACAAGGACAGGTCTGAAGGAGACCCTGACATCAAGCTTGAACCAAG
 TCCCTTGATGGCTATAAAAAATGGTATACTGGAACCTTGCCAGACAGTGGCCAGCAGCCAACCCAGAG
 GTGCTGGAAGAACTGGCTCCTGAGACTGCACACAGGGAGGAAGCATCCCAGGAGTGTCCCAAGAAGACT
 CCTGCCTGTACGAAAGAAATTTGACAAAGTAAACCTGTGAAACACTTAGCAAAGACAGAGGACTGCAG
 TCCAGAGCACAGCTTCCCTGGGAAAGACGGGCTGCCAGATTTGCCAGGCTCATCCTGATCAAGGTGAG
 CCCAGTGGCACAGTCAAGGTGCCGTGAGCTACACGGACTCTGCTCCCTCACCGTTGGCTGCTCTGTTG
 TCACACCCGACAGCTTCAAAAAGACAGCTTCAAGACTGCACAAAGTAAAAAGAAGCGGCGGGTCAACAG
 GTACGATGCACAGCTGATCCTGGAGAACAGCTCTGGAATCCCCAAGCTGACGCTTCGAGGCGGCACGAC
 AGCAGCAGCAAGACAAACGACCATGAGAGTACGGCGTGAACCTCCTCAAGATCAGCATCAAACCTCAGCA
 AGGACCACGACAGTGCAGCAACCTCTATGTTGCCAAGCTCAGTAACGGGGTCAAGCGGGGCGGGCAG
 CAGCTCCACCAAGCTCAAGATCCAGCTCAAGCGGGATGAGGAGAGCAGGGGGCCATGTGCAGAGGGCTG
 CACGAGAACGGGGTGTGCTGCAGCGACCCCTCTCCCTGCTCGAGTCCCAGATGGAGGTGGACACTACA
 GTCAATATGAGGAGGACAGCACAGATGAATCCTCATCTTCTCCGGCAAAGCGGCTGAGGCTAATTGTTG
 G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210794 representing BC075709
 Red=Cloning site Green=Tags(s)

MKWLGDSKNMNVNRRNGGKLSNDHQNQSKLQQHSGKDTLKTGRNAVERRSNRCHGNSGFEGQSRVPS
 SGMSAKELCENDDLATSLVLDPYLGFQTHKMNTRFRPIKGRQEELKEVIERFKKDEHLEKAFKCLTSGEW
 ARHYFLNKNMQEKL FKEHVFIYLRMFATDSGFEILPCNRYSSSEQNGAKIVATKEWKRNDKIELLVGCIA
 ELSEIEENMLLRHGENDFSVMYSTRKNCAQLWLGPAAFINHDCRPNCKFVSTGRDTACVKALRDIEPGEE
 ISCYYGDGFFGENNEFCECYTCERRGTGAFKSRVGLPAPAPVINSKYGLRETDKRLNRLKKLGDSSKNSD
 SQSVSSNTDADTTQEKNATSNRKSSVGKSSKSRALTRPSMPRVPAASNSTSAKLVHTNPNRPVKLR
 KPAKPLL SKIIRLNHCKRLDQKSASRKLEMGSLVLKEPKVVL YKNLPIKKEREPEGPAHAAVSGCLTRH
 AAREHRQSHGRGAHSQGDSPCTYTTRRSLRTRTGLKETT DIKLEPSPLDGYKNGILEPCPDSGQQPTPE
 VLEELAPETAHREEASQECPKNDSCLSRKKFRQVKPVKHLAKTEDCSPEHSFPGKDGLPDLPGSHPDQGE
 PSGTVRVPVSYTDSAPSPVGC SVVTPDSFTKDSFRTAQSKKKRRVTRYDAQLILENSSGIPKLT LRRRH
 SSKTNDHESDGVNSSKISIKLSKDHDSDSNLYVAKLSNGVSAGPGSSSTK LKIQLKRDEESRGPCA EGL
 HENGVCCSDPLSLLSQMEVDDYSQY EEDSTDESSSSSGKAAEANCW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

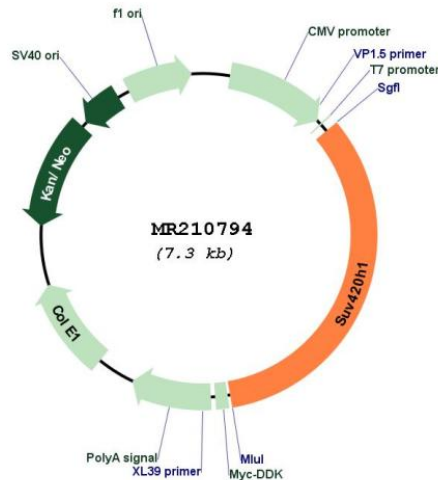
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: BC075709

ORF Size: 2451 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: [BC075709.1](#)

RefSeq Size: 3901 bp

RefSeq ORF: 2453 bp

Locus ID: 225888

Cytogenetics: 19 A

MW: 143 kDa

Gene Summary: Histone methyltransferase that specifically trimethylates 'Lys-20' of histone H4. H4 'Lys-20' trimethylation represents a specific tag for epigenetic transcriptional repression. Mainly functions in pericentric heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin in these regions. KMT5B is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2). Plays a role in myogenesis by regulating the expression of target genes, such as EID3.[UniProtKB/Swiss-Prot Function]