

Product datasheet for MR219517

Serpinh1 (NM_001111043) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serpinh1 (NM_001111043) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serpinh1
Synonyms:	BERF-1; Cbp1; Cbp2; gp46; Hsp47; J6; Serpinh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219517 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCTCTCCTTCTGGGCACCTTATGCCTCTTGGCCGTGGCCCTGGCAGCCGAGGTGAAGAAACCC
TAGAGGGCGCAGCCCTGGTACTGCGGAGAAGCTAAGTCCAAGGCGACCACACTGGCAGAGCGCAGCAC
AGGCTGGCCTCAGCCTATATCAGGCGATGGCCAAAGACCAGGCGGTGGAGAACATCCTCTGTCACCC
TTGGTGGTGGCCTCATCCCTGGTCTTGTGTCACTGGTGGTAAAGCCACCACAGCGTCGAGCGAAGG
CAGTGCTGAGCGCTGAGAAGCTGCGCGATGAGGAGGTGCACACGGGGCTGGGTGAGCTGCTCCGCTCCCT
CAGCAACTCCACTGCGCGCAACGTGACCTGGAACTGGGCAAGCCGCTGTACGGGCCAGCTCCGTGAGC
TTCGCCGATGACTTCGTGCGCAGCAGCAAGCAACTACAACACTGCGAACACTCCAAGATCAACTCCGAG
ACAAGCGCAGCGCCCTGCAGTCCATCAACGAGTGGGCCTCGCAGACCACGGACGGCAAGCTGCCTGAGGT
CACCAAGGATGTGGAGCGCACGGATGGGGCACTGCTTGTGAACGCCATGTTCTTTAAGCCACACTGGGAT
GAGAAGTTTACCACAAGATGGTGGACAACCGTGGCTTCACTGGTACCCGCTCCTATACTGTGGGTGTTA
CGATGATGCACCGGACAGGCCTGTACAACACTATGACGACGAGAAGGAGAAGCTGCAGATGGTGGAGAT
GCCCTGGCTCACAAGCTCTCCAGCCTCATCATCTCATGCCACCACGTGGAGCCGCTCGAGCGCTTG
GAGAAGCTGCTGACCAAGGAGCAGCTGAAGGCCCTGGATGGAAAGATGCAGAAGAAGGCTGTCGCCATCT
CCCTGCCCAAGGGCGTGGTGGAGGTGACCCATGACCTGCAGAAACATCTGGCAGGACTGGGCTGACCGA
GGCCATCGACAAGAACAAGGAGACCTATCGCGCATGTCTGGCAAGAAGGACCTGTACTAGCCAGTGTG
TTCCATGCCACTGCCTTCGAGTGGGACACCGAGGGCAACCCCTTTGACCAAGACATCTACGGGCGGAGG
AGCTGCGCAGCCCAAGCTGTTCTATGCCGACCACCCCTTTCATCTTCTGGTGGAGATAATCAGAGCGG
CTCCTTGCTTTCATTGGCCGCTGGTCCGCCCAAGGGAGACAAGATGCGAGATGAGTTG

ACGGTACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219517 protein sequence
 Red=Cloning site Green=Tags(s)

MRSLLLGLTCLLAVALAAEVKKPLEAAAAPGTAEKLSKATTLAERSTGLAFSLYQAMAKDQAVENILLSP
 LVVASSLGLVSLGGKATTASQAKAVLSAEKLRDEEVHTGLGELLRSLSNSTARNVTWKLGSRLYGPSSVS
 FADDFVRSSKQHYNCEHSKINFRDKRSALQSINEWASQTTDGKLPVTKDVERTDGALLVNAMEFKPHWD
 EKFFHHKMVDNRGFMVTRSYTVGVTMMHRTGLYNYDDEKEKLMVEMPLAHKLSLIIILMPHHVEPLERL
 EKLLTKEQLKAWMGKMQKKAVALSLPKGVVEVTHDLQKHLAAGLGLTEAIDKNKADLSRMSGKLDLYLASV
 FHATAFEWDTGPNPFDQDIYGREELRSPKLFYADHPFIFLVRDNQSGSLLFIGRLVRPKGDKMRDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001111043

ORF Size: 1251 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: [NM_001111043.1](#), [NP_001104513.1](#)

RefSeq Size: 2273 bp

RefSeq ORF: 1254 bp

Locus ID: 12406

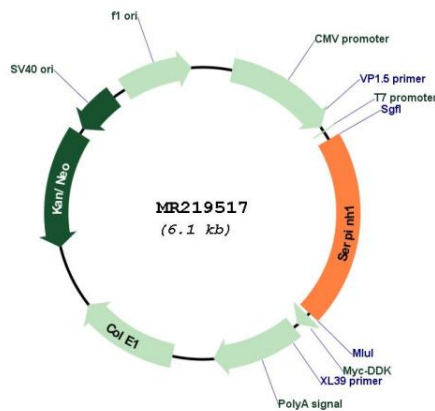
UniProt ID: [P19324](#)

Cytogenetics: 7 E1

MW: 46.5 kDa

Gene Summary: Binds specifically to collagen. Could be involved as a chaperone in the biosynthetic pathway of collagen.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219517