

Product datasheet for **MR208422**

Usp22 (NM_001004143) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp22 (NM_001004143) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp22
Synonyms:	A1427806
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208422 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGCCAGGCCGAGCCTGAGGTGACGACCTGACGCTGAGCTGGCGGTACCGCCGCTGGCTGCT
 CGCACCTGGGCAGCTTCAAGGTGGACAACCTGGAAGCAAAACCTGCGGGCCATCTACCAGTCTTCGTGTG
 GAGCGGAAGTCCGAGGCTCGCAAGCGCAAGGCAAGTCTGTGTCTGCCATGTCTGCGGCATCCACCTG
 AACCGGCTGCACTCTTGCTCTACTGTGTCTTCTTTGGCTGTTTCACGAAGAAGCACATCCATGACCATG
 CCAAGTCAAAGCGACACAACCTGGCCATCGACCTGATGTACGGAGGTATTTACTGCTTCTGTGTGTCAGGA
 CTACATCTATGACAAAGACATAGAAATCATTGCCAAAGAGGAGCAGCGCAAGGCTTGAAGATGCAAGGT
 GTTGAGAGAAGTTTTCAACTTGGGAACCACTAAACGGGAGCTGGAAGTCTGAAGCATAACCCAAAGA
 GCGGAAGATCACCTCAATTGTACCATAGGTCTGCGTGGACTGATCAACCTGGGGAACAGTGTTCAT
 GGACTGCATCGTGAGGCGCTGACCCACTCCGCTCCTGAGAGACTTCTTTCTGTGCGGATAGGCACCGC
 TGTGAGATGCAGAGCCCCAGCTCCTGCTTGGTCTGTGAGATGCCTCTCTCTCCAGGAGTTTTACTCAG
 GGCACCGCTCCCCACACATTCATACAAGCTGCTGCACCTGGTGTGGACGCACGCCCGGCACCTGGCGGG
 TTATGAGCAGCAGGACGCACATGAGTTCCTCATTGCAGCCTGGACGCTCCTCCACCGGCACTGCAAAGGT
 GATGACAAATGGGAAGAAAGCCAAACAATCCTAACCCTGCAATTGCATCATTGACCAGATCTTTACGGGTG
 GGCTCCAGTCTGATGTTACATGCCAAGTCTGCCACGGGTCTCCACCACCATAGACCCCTTCTGGGACAT
 CAGTTTAGACCTCCCGGTTCTTCTACCCATTCTGGCCCTTGAAGCCAGGAGCGAGGGCAGTGTGTT
 AATGGGGAGAGCCATGCATCCGGGACCACACTCTCACAGACTGCCTGCGAAGATTTACCAGACCAGAGC
 ACTTAGGAAGCAGTGCCAAGATCAAGTGTAGCGGTTGCCATAGCTACCAAGAGTCCACAAGCAGCTCAC
 CATGAAGAAGCTGCCATTGTGGCTGTTTCCATCTCAAACGATTTGAACACTCAGCCAAACTTCGGCGG
 AAGATCACACATATGTGTCTTTTCCCCTGGAAGTGGACATGACGCCCTCATGGCTCCAGCAAAGAGA
 GCAGGATGAATGGGAATACCAGCAGCCCTGGACAGTCTCAACAATGACAACAAATACTCCCTGTTTGC
 TGTGTTAAACATCAAGGGACCTTGAGAGTGGCCACTACACCAGCTTCTCCGGCAGCACAAGACCAG
 TGGTTCAAGTGTGATGACGCCATTATCACAAGGCCAGCATCAAAGATGTACTGGACAGTGAAGGTACC
 TACTCTTCTATCACAACAGTTCCTGGAATACGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208422 protein sequence
 Red=Cloning site Green=Tags(s)

MVARPEPEVEAMDAELAVPPPGCSHLGSKVDNWKQNLRAIYQCFVWSGTAEARKRKAKSCVCHVCGIHL
 NRLHSLCYCVFFGCFTKKHIHDHAKSKRHNLAIIDLMYGGIYCFQCQDYIYDKDIEIIAKEEQRKAWKMQG
 VGEKFSTWEPTKRELELLKHNPKRRKITSNCTIGLRGLINLGNTCFMDCIVQALHTHPLLRDFLSDRHR
 CEMQSPSSCLVCEMSSLFQEFYSGHRSPHIPYKLLHLVWTHARHLAGYEQQDAHEFLIAALDVLHRHCKG
 DDNGKKANNPNHCNCIIDQIFTGGLQSDVTCQVCHGVSTTIDPFWDISLDLPGSSPFWPLSPGSEGSV
 NGESHASGTTTLTDLRRFTRPEHLGSSAKIKCSGCHSYQESTKQLTMKKLPVACFHLKRFHSAKLRR
 KITTYVSFPLEDMTPFMASKE SRMNGYQQPLDSLNNNDNKYSLFAVNVHQGTLES GHYTSFIRQHKDQ
 WFKCDDAIITKASIKDVL DSEG YLLFYHKQFLEYE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001004143

ORF Size: 1578 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_001004143.1](#)

RefSeq Size: 4442 bp

RefSeq ORF: 1578 bp

Locus ID: 216825

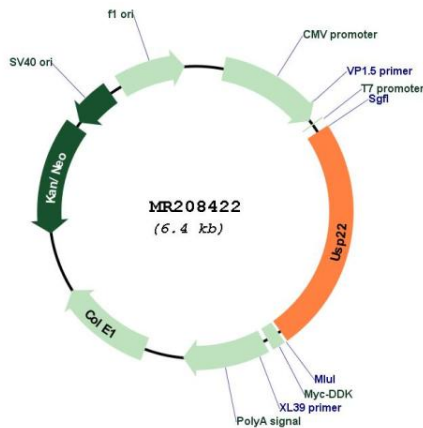
UniProt ID: [Q5DU02](#)

Cytogenetics: 11 B2

MW: 60 kDa

Gene Summary: Histone deubiquitinating component of the transcription regulatory histone acetylation (HAT) complex SAGA. Catalyzes the deubiquitination of both histones H2A and H2B, thereby acting as a coactivator. Recruited to specific gene promoters by activators such as MYC, where it is required for transcription. Required for nuclear receptor-mediated transactivation and cell cycle progression (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208422