

Product datasheet for **RR202493**

Nasp (NM_001005543) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nasp (NM_001005543) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nasp
Synonyms:	MGC93869
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RR202493 representing NM_001005543
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCACAGAGTCTACAGCCACTGCTGCCATCGCCGCGAACTGGTTCCGCTGACAAAGTTGAAGATG
 CTCTGCTCCTTCTACCTCTGCAGATAAAATGGAGAGTCTGGATGTGGATAGTGAAGCTAAGAACTACT
 GGGATTAGGACAGAAACATCTGGTGATGGGTGACATTCCAGCAGCTGTTAATGCATTCCAAGAAGCAGCT
 AGTCTTTTAGGTAAGAAGTATGGAGAAACGGCTAATGAGTGTGGAGAAGCCTTCTTTTTTATGGGAAGT
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 GGAAGAAGGAGAAAAACAGAAGATGAATCTTTGGTAGAAAAATGATAATGTAGATGAGGAAGCAAGG
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 TCTCATCTGTGAGAAAGAAGAGGAAACCAAGAGAGAGTCCCCGAAAGATGATGCAAAGAAAGCTA
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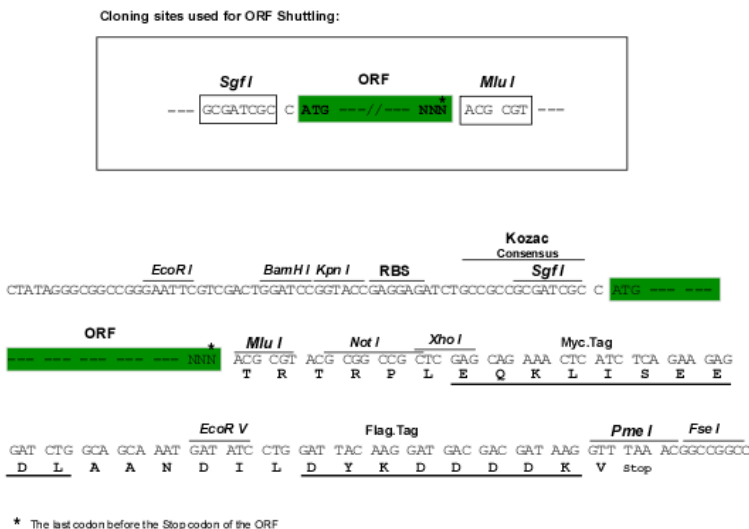
Protein Sequence: >RR202493 representing NM_001005543
Red=Cloning site Green=Tags(s)

MATESTATAAIAELVSADKVEDAPAPSTSADKMESLDVDSEAKLLGLGQKHLVMGDIPAAVNAFQEEA
SLLGKKYGETANECGEAFFFYGKSLLELARMENGLGNALEGVHVEEEEGEKTEDESLVENNDNVDEEAR
EELREQVYDAMGEKEAKKAEGQSLTKPETDKEQESEVEKGGREDMDISEPAEKLQEKVESTSKQLTESSE
EAKEAAIPGLNEDEVTSGKTEQESLCTEEGKISGVYVQNKEFREAVPQEEGEEMI SLEKKPKETSEDQT
IGAPEKQDTLMKVVEIEAEIDSEVKSVDVGGEEPDKQGAISESELGKAVLMQLSGQDVEVSPVAAEAGS
EVSEKPGQEITVLPNNGPVVQSSAGDQTPSEPQNSAERLSETKDGASVEEVKAELVPEQEEAMPVVEES
EAAGDGVETKVAQRATEKAPEDKFKIAANEETQERDEQMKEGEETEGSEEEEDKENDKAEETTNEVLEKK
TLQENEEEEIGNLELAWDMLDLAKIIFKRQETKEAQLYAAQHLKLGVSVESENYIQAVEEFQACLSLQ
EQYLEAHDRLLAETHYQLGLAYGYNSQYDEAVAQFGKSIDVIEKRMAVLLQMKAEAGSFTEYEKEIEEL
KELLPEIREKIEDAKESQRSGNVAELALKATLVESSTSGFTPSGAGASVSMIASRKPTDGASSSNCVTDI
SHLVRKKRKPPEEESPRKDDAKKAKPEPEVNGGSGDAVSSGNEVSENMEAEAEENQAESQTTAEGTVDSAAT
VKSTAC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001005543

ORF Size: 2328 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_001005543.1](#), [NP_001005543.1](#)

RefSeq Size: 2627 bp

RefSeq ORF: 2331 bp

Locus ID: 298441

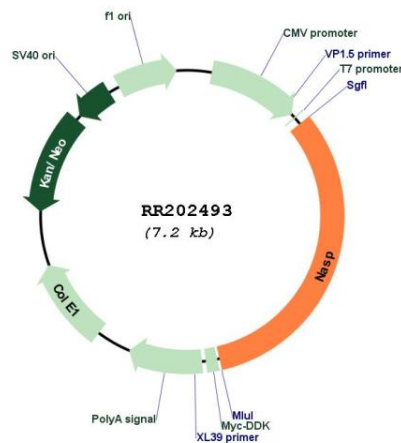
UniProt ID: [Q66HD3](#)

Cytogenetics: 5q35

MW: 84.2 kDa

Gene Summary: Required for DNA replication, normal cell cycle progression and cell proliferation. Forms a cytoplasmic complex with HSP90 and H1 linker histones and stimulates HSP90 ATPase activity. NASP and H1 histone are subsequently released from the complex and translocate to the nucleus where the histone is released for binding to DNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR202493