

## Product datasheet for **RN202493**

### **Nasp (NM\_001005543) Rat Untagged Clone**

#### **Product data:**

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



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Fully Sequenced ORF: >RN202493 representing NM\_001005543  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCACAGAGTCTACAGCCACTGCTGCCATCGCCGCGAACTGGTTCCGCTGACAAAGTTGAAGATG  
 CTCTGCTCCTTCTACCTCTGCAGATAAAATGGAGAGTCTGGATGTGGATAGTGAAGCTAAGAACTACT  
 GGGATTAGGACAGAAACATCTGGTGATGGGTGACATTCCAGCAGCTGTTAATGCATTCCAAGAAGCAGCT  
 AGTCTTTTAGGTAAGAAGTATGGAGAAACGGCTAATGAGTGTGGAGAAGCCTTCTTTTTTATGGGAAGT  
 CACTTCTGGAGTTGGCCAGAATGGAGAATGGAGTGTGGGAAATGCCTTAGAAGGAGTGCATGTAGAAGA  
 GGAAGAAGGAGAAAAACAGAAGATGAATCTTTGGTAGAAAAATGATAATGTAGATGAGGAAGCAAGG  
 GAAGAGTTGAGAGAACAGGTTTATGACGCCATGGGAGAAAAAGCCAAAAAGCAGAAGGCCAGTCTC  
 TGACAAAGCCTGAACTGATAAAGAACAGGAAAGTGAAGTGGAGAAGGTGGAAGAGAAGATATGGATAT  
 AAGTGAGCCTGCAGAGAAGCTCCAGGAAAAAGTTGAATCGACTTCAAAGCAGTTAACTGAATCCTCTGAA  
 GAGGCAAAAGAAGCAGCAATACCGAGACTGAATGAAGATGAGGTCACTTCTGGGAAGACAGAACAGGAAT  
 CATTGTGTACTGAGGAAGGAAAAATCCATTTCTGGAGTTTATGTTCAAAATAAAGAATTCAGAGAAGCAGT  
 GCCTCAGGAGGAGGGAGAGGAAATGATAAGCTTAGAAAAAGCCAAAAGAACTTCAGAAGATCAGACT  
 ATGGGGCTCCAGAAAAGCAGGACACTTAAATGAAGGTGGTAGAAATAGAAGCTGAAATAGACTCTGAAG  
 TCAAGTCAGTGGATGTGGGTGGGAGGAGCCGAAGGATCAGGGAGCTATCTCTGAGAGTGAAGTGAAG  
 GGCTGTTCTTATGCAACTCTCAGGGCAAGATGTTGAAGTATCACCAGTAGTGGCTGCAGAGGCTGGATCA  
 GAAGTCTCTGAGAAGCCAGGGCAGGAGATTACAGTCTTCCCAACAATGGTCCAGTTGTTGGACAATCAT  
 CTGCAGGAGATCAAACCTCTAGTGAACCAAGAAATCTGCAGAAAGACTGTCAGAAACTAAAGATGGCGC  
 AAGTGTAGAGGAGGTCAAGGCAGAGCTGGTTCTGAACAGGAGGAAGCTATGCCTCCTGTAGAAGAGTCT  
 GAGGCAGCTGGAGATGGGGTTGAGACCAAGGTAGCCAGAGGGCCACGGAGAAAGCACCTGAAGACAAT  
 TTAAGATAGCTGCTAATGAAGAGACACAAGAGAGAGACGAACAGATGAAAGAGGGTGAAGAACTGAAGG  
 CTCAGAGGAAGAAGACAAAGAAATGACAAGGCTGAAGAAACAACAAATGAATCAGTTCTTGAAAAAAG  
 ACTCTTCAAGAAATGAAGAAGAGGAGATTGGGAATTTAGAACTGCCTGGGATATGCTAGATTTAGCCA  
 AGATTATTTTTAAGAGGCAAGAAACAAAAGAAGCCAGCTTTATGCTGCACAAGCCCATCTTAACTTGG  
 AGAAGTTAGTGTGAATCTGAGAATTATATCCAAGCTGTGGAGGAGTTTCAGGCTTGCTAAGCCTGCAA  
 GAGCAGTATTTGGAAGCTCACGATCGTCTCCTTGGGAGACTCACTACCAGTTGGGTTTGGCCTATGGTT  
 ACAACTCTCAGTATGATGAGGCTGTAGCACAGTTTGGCAAATCTATTGAGTCTTGGAGAAGAGAATGGC  
 TGTACTACTTGAGCAGATGAAGGAGGCTGAAGGATCATTACTGAATACGAGAAAGAAATCGAGGAGCTG  
 AAAGAAGTGTCCCCGAGATTCGGGAGAAGATAGAGGATGCAAAGGAGTCTCAGCGGAGTGGAAATGTAG  
 CTGAGCTGGCTCTGAAGGCCACTCTGGTCGAGAGCTCTACTTCAGGTTTCACTCCTAGTGGAGCTGGTGC  
 CTCGGTATCCATGATTGCCAGTAGAAAACCAACAGATGGCGCTTCTCATCAAACGTGTGCTACTGATATT  
 TCTCATCTGTGAGAAAGAAGAGGAAACCAAGAGAGAGTCCCCGAAAGATGATGCAAAGAAAGCTA  
 AACCAAGAACAGAGGTGAATGGAGGCAGTGGAGATGCTGTCTCCAGTGGAAATGAAGTTTCAGAAAAAT  
 GGAGGCAGAGGCTGAGAATCAGGCTGAGAGCCAGACAACAGCAGAAGGGACAGTGGACTCTGCAGCTACA  
 GTTAAAAGCACTGCATGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001005543  
 Insert Size: 2331 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001005543.1</a> , <a href="#">NP_001005543.1</a>
<b>RefSeq Size:</b>	2627 bp
<b>RefSeq ORF:</b>	2331 bp
<b>Locus ID:</b>	298441
<b>UniProt ID:</b>	<a href="#">Q66HD3</a>
<b>Cytogenetics:</b>	5q35
<b>Gene Summary:</b>	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]