

## Product datasheet for **RG231392**

### **NASP (NM\_001195193) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NASP (NM_001195193) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NASP
Synonyms:	FLB7527; HMDRA1; PRO1999
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG231392 representing NM\_001195193  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCATGGAGTCCACAGCCACTGCCGCCGTCGCCGCGGAGCTGGTTTCTGCCACAAAATTGAAGATG  
 TTCCTGCTCCTTCTACATCTGCAGATAAAGTGGAGAGAATGGAGAATGGTGTGTTGGGAAACGCCTTGG  
 AGGTGTGCATGTGGAAGAGGAAGAGGAGAAAAACAGAAGATGAATCTCTGGTAGAAAAATATGATAAC  
 ATAGATGAGGAAGCAAGGGAAGAGTTGAGAGAACAGGTTTATGACGCCATGGGAGAAAAAGAAGAAGCCA  
 AAAAAACAGAAGACAAGTCTTTGGCAAAGCCTGAAACTGATAAAGAACAGGACAGTGAAATGGAGAAGGG  
 TGGAAAGAGAAGATATGGATATAAGTAAATCTGCAGAGGAGCCACAGGAAAAAGTTGACTTGACTCTAGAT  
 TGGTTAACTGAAACCTCTGAAGAGGCAAAGGAGGAGCAGCACCAGAAGGACCGAATGAAGCTGAGGTCA  
 CTTCTGGGAAGCCAGAACAGGAAGTACCAGATGCTGAGGAAGAAAAATCAGTTTCTGGAAGCTGATGCCA  
 AGAAGAGTGCAGAGAAAAAGGAGGTCAGGAGAAGCAGGGAGAGGTAATTGTGAGCATAGAGGAGAAGCCA  
 AAAGAAGTTTCAGAAGAGCAGCCTGTGGTACTCTAGAAAAGCAGGGCACTGCAGTGGAGGTAGAAGCAG  
 AGTCTTTAGACCCGACAGTCAAGCCAGTGGATGTGGGTGGGGACGAGCCAGAGGAGAAGGTAGTTACCTC  
 TGAAAACGAGGCAGGAAAGGCGGTTCTTGAACAACTGGTAGGTCAGAAGTACCACCTGCTGAAGAGTCA  
 CCAGAGGTGACAACAGAGGCTGCAGAGGCTCAGCTGTAGAGGCTGGATCAGAAGTCTCTGAAAAGCCTG  
 GGCAGGAGGCTCCAGTTCTCCCTAAGGATGGTGCAGTCAATGGACCGTCAGTTGTAGGAGATCAGACTCC  
 TATTGAACCACAGACTTCTATAGAAAGACTGACAGAAACAAAAGATGGCTCAGGACTAGAGGAGAAGGTC  
 AGGGCAAAGCTGGTTCTAGTCAGGAGGAGACTAAGCTGTCTGTAGAAGAGTCTGAGGCAGCTGGAGATG  
 GGGTTGATACCAAGGTAGCCAGGGAGCTACTGAGAAATCACCTGAAGACAAAAGTTAGATAGCTGCTAA  
 TGAAGAGACACAAGAGAGAGAAGAACAGATGAAAAGAGGGTGAAGAAACTGAAGGCTCAGAAGAGGATGAT  
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 AGGAGGAGGAGATTGGGAACCTAGAGCTTGCCTGGGATATGCTGGATTTAGCAAAGATCATTTTTAAAAG  
 GCAAGAAACAAAAGAAGCACAGCTTTATGCTGCCAGGCACATCTTAACTCGGAGAAAGTTAGTGTGAA  
 TCTGAAAACATATGTGCAAGCTGTGGAGGAGTCCAGTCTGCCTAACCTGCAGGAACAGTACCTGGAAG  
 CCCACGACCGTCTCCTTGCAGAGACCCACTACCAGCTGGGCTTGGCTTATGGGTACAACCTCAGTATGA  
 TGAGGCAGTGGCACAGTTCAGCAATCTATTGAAGTCATTGAGAACAGAATGGCTGTACTAACGAGCAG  
 GTGAAGGAGGCTGAAGGATCGTCTGCTGAATACAAGAAAGAAATTGAGGAACTAAAGGAACTGCTACCCG  
 AAATTAGAGAGAAGATAGAAGATGCAAAGGAGTCTCAGCGTAGTGGGAATGTAGCTGAACTGGCTCTGAA  
 AGCTACTCTGGTGGAGAGTTCTACTTCAGTTTCACTCCTGGTGGAGGAGGCTCTTCAGTCTCCATGATT  
 GCCAGTAGAAAGCCAACAGACGGTGTCTCCTCATCAAATTGTGTGACTGATATTTCCACCTTGTGAGAA  
 AGAAGAGGAAACAGAGGAAGAGAGTCCCCGAAAGATGATGCAAAGAAAGCCAAACAAGAGCCGGAGGT  
 GAACGGAGGCAGTGGGGATGCTGTCCCCAGTGGAAATGAAGTTTCGGAAAAACATGGAGGAGGAGGCTGAG  
 AATCAGGCTGAAAGCCGGGCAGCAGTGGAGGGGACAGTGGAGGCTGGAGCTACAGTTGAAAGCACTGCAT  
 GT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG231392 representing NM\_001195193  
 Red=Cloning site Green=Tags(s)

MAMESTATAAVAAELVSADKIEDVPAPSTSADKVERMENGVLGNALEGVHVEEEEGEKTEDESLVENNDN  
 IDEEAREELREQVYDAMGEKEEAKKTEDKSLAKPETDKEQDSEMEKGGREDMDISKSAEEPQEKVDLTL  
 WL TETSEEAKGGAPEGPNEAEVTS GKPEQEV PDAEEKSVSGTDVQEECREKGGQEKQGEVIVSIEEK  
 KEVSEEQPVVTLLEKQGTAVEVEAESLDPTVKPVDVGGDEPEEKVVTSENEAGKAVLEQLVGQEVPPAES  
 PEVTTEAAEASAVEAGSEVSEKPGQEPVLPKDGAVNGPSVVGDTPIEPQTSIERLTETKDGSGLEEKV  
 RAKLVPSQEETKLSVEESEAAGDGDVTKVAQGATEKSPEDKVQIAANEETQEREEQMKEGEETESEEDD  
 KENDKTEEMPNDSVLENKSLQENEEEEIGNLELAWDMLDLAKIIFKRQETKEAQLYAAQHLKLGESVSE  
 SENYVQAVEEFQSCNLQEQYLEAHDRLLAETHYQLGLAYGNSQYDEAVAQFSKSIEVIENRMAVLENEQ  
 VKEAEGSSAEYKKEIEELKELLPEIREKIEDAKESQRSGNVAELALKATLVESSTSGFTPGGGSSVSMI  
 ASRKPTDGASSNCVTDISHLVRKKRKPPEEESPRKDDAKKAKQEPEVNGGSGDAVPSGNEVSENMEEEAE  
 NQAESRAAVEGTVEAGATVESTAC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001195193

**ORF Size:** 2172 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\\_001195193.1](#), [NP\\_001182122.1](#)

**RefSeq Size:** 3109 bp

**RefSeq ORF:** 2175 bp

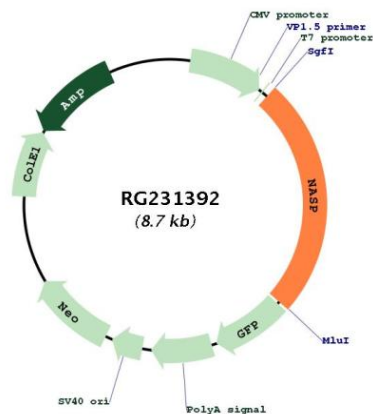
**Locus ID:** 4678

**UniProt ID:** [P49321](#)

**Cytogenetics:** 1p34.1

**Gene Summary:** This gene encodes a H1 histone binding protein that is involved in transporting histones into the nucleus of dividing cells. Multiple isoforms are encoded by transcript variants of this gene. The somatic form is expressed in all mitotic cells, is localized to the nucleus, and is coupled to the cell cycle. The testicular form is expressed in embryonic tissues, tumor cells, and the testis. In male germ cells, this protein is localized to the cytoplasm of primary spermatocytes, the nucleus of spermatids, and the periacrosomal region of mature spermatozoa. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG231392