

Product datasheet for **RG202766**

NSBP1 (HMGN5) (NM_030763) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSBP1 (HMGN5) (NM_030763) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HMGN5
Synonyms:	NBP-45; NSBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202766 ORF sequence, codon optimized . Due to the complexity of NM_030763, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAAAACGAAAGGCTGCCGGTCAGGGGACATGAGACAAGAGCCGAAACGCCGGTCCGCTAGGCTGA
GTGCAATGCTGGTCCCGGTGACTCCCGAGGTGAAGCCTAAAAGAAGTGTAGTTCTCGGAAGATGAAGAC
AAAAAGTGATATGATGGAGGAGAATCGATACCTCCGCACAGGCCGTGGCCGAAACGAAGCAGGAGGCG
GTCGTGGAAGAGGATTATAACGAGAATGCGAAAAATGGAGAAGCCAAGATCACCGAGGCTCCGGCTAGTG
AAAAGGAGATCGTTGAAGTGAAGAGGAAAAATATCGAGGACGCCACAGAAAAGGGTGGAGAAAAGAAGGA
GGCAGTTGCCCGCAGGTTAAGAATGAAGAAGAGGACCAGAAAAGAAGACGAAGAGGATCAGAACCAGGAA
AAGGGCAGGCAGGGAAGGAGGATAAAGACGAAAAGGGAGAAGAAGACGGAAAAGAAGATAAAAATGGCA
ACGAGAAAAGGGGAGGACCCAAGGAAAAGGAGGATGGCAAGAAAGGAGGACGGGAAGGGGAATGGCGA
AGACGGGAAAAGAGAAGGGGGAGGATGAAAAGGAGGAGGATCGCAAAGAGACGGGTGATGGCAAAGGAG
AACGAGGATGGGAAGGAAAAGGCGACAAGAAAGAGGAAAGGATGTGAAAGTAAAGGAAGATGAGAAAAG
AGAGAGAAGATGGCAAAGAACGAAGGTGTAATGAGGAAGAAGCTGGCAAGGAGAAGGAAGACCTTAA
AGAAGAGGAGGAGGGTAAAGAGGAGGACGAAATCAAGGAAGACGCGAAAAGAAGGAAGAACCTCAGAGT
ATTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202766 representing NM_030763
 Red=Cloning site Green=Tags(s)

MPKRKAAGQGDMRQEPKRRSARLSAMLVPVTPEVKPKRTSSSRKMKTKSDMMEENIDTSAQAVAETKQEA
 VVEEDYNENAKNGEAKITEAPASEKEIVEVKEENIEDATEKGGEKKEAVAAEVKNEEDQKDEEDQNEE
 KGEAGKEDKDEKGEEDGKEDKNGNEKGEDAKEKEDGKKGEDGKNGEDGKKEKGEDEKEEEDRKETGDGKE
 NEDGKEKGDKKEGKDVVKEDEKEREDGKEDEGGNEEEAGKEKEDLKEEEEKKEEDEIKEDDGKKEEPQS
 IV

TRTRPLE - GFP Tag - V

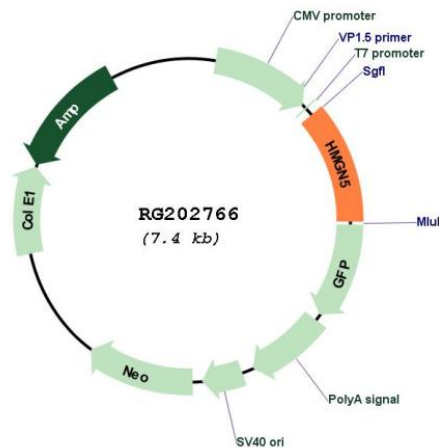
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_030763

ORF Size: 846 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:	<ol style="list-style-type: none">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_030763.2 , NP_110390.1
RefSeq Size:	2126 bp
RefSeq ORF:	849 bp
Locus ID:	79366
UniProt ID:	P82970
Cytogenetics:	Xq21.1
Domains:	HMG14_17
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a nuclear protein with similarities to the high mobility group proteins, HMG14 and HMG17, which suggests that this protein may function as a nucleosomal binding and transcriptional activating protein. [provided by RefSeq, Sep 2009]