

## Product datasheet for **RG207175**

### NSUN7 (NM\_024677) Human Tagged ORF Clone

#### Product data:

|                    |                         |
|--------------------|-------------------------|
| Product Type:      | Expression Plasmids     |
| Tag:               | TurboGFP                |
| Symbol:            | NSUN7                   |
| Mammalian Cell     | Neomycin                |
| Selection:         |                         |
| Vector:            | pCMV6-AC-GFP (PSI00010) |
| E. coli Selection: | Ampicillin (100 ug/mL)  |

**ORF Nucleotide Sequence:** >RG207175 representing NM\_024677  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTGAATTCACGGGCGAACTGGAGTTTTCGAACGAAGAAGATCCCGAGATCATCTCCCAACTCACTT  
CCCTGCCTCTGTCCGGTGGGAAAAGCTCAGCTGGTGTGCCCGAAAAACGGGCTATCCGGACTCCGTTTA  
TGTCATGGCAGCCAACATTTTTCAGGGTATTCGAATCGAAAAGTCGGCACAGAAAGTCTTAATCAAGTAT  
GGGAATGAACCCCTGCGGTCTTGTCCGAGTCTGAGGATCAGTCCTTTCAGCGTTTGTCTTATGAGCTGG  
CTTTCAGTGCCTGAAATATCAAGATATTTGGAACTATATTGATAGACAGCTGTATCTTCCCAAGTAC  
CACAATACAGATCATTTGAGCAGTCTTATTATTGTGATGCTATATGATTCCAAGATAGAAAATTTCAA  
ACTCGTGTCTTTCTGATAATGAAGAGCCCATATCAGAAGTTCAAGAAAGTAGAGAACCCTTCTTAACAGTT  
TTAAGATAAAATTGGCTGCAGCATTGGCAAGATGTGCAATCAAGCATGATGCCCTTTCAATTTACCACAT  
CCTTCAGAAACAGTTAGGAAACAGGAACTAAGGGCCTCCACTTTACCACTTTATGCTTGGATAAATACT  
TGTAATTCAGCCCTGAAGAAGTTTATAAATTTGAAGAGAAGAGGCTATAATAAAGTCAAATCTGTAT  
TGCATATTGATGATAAAGTCTTGTCTGTGGATCAACATTGCTATGATGTCTTAATTTTCCATCTCATCT  
TAAAAATGATCTTATAATATAGATCTTTTCAAAGATTACAACTTATATTTCAGGACAAATCTCGAAGT  
CTTGCTGTCCATTCTGTAAGGCTTTATTAATATGGATGATGATGTCTTAATGGTCAATACAGGTTTCAT  
GGTACACAGTTGCCACATGTCAATTTTAAACAATAATAACCTCAAAAGTATTGTGTGGAGTACA  
ATCACAAGCTAAGGATCCTGACTTGAAGACCCTTTTCACAAAAATAGGATGTAATAAATTGAAATACCT  
CATGAGAAATTTATTAACATTGAATCAAAGGATCACAGGTTACAGAAAGTTAAAGTGATTTTGCTGCTAC  
CTCGTTGTTCAAGGACTGGGTGTTAGTAATCCAGTAGAATTTATTTTAAATGAACATGAAGATACAGAATT  
CCTTAAAGATCACTCTCAAGGAGGCATCTCAGTGGACAACTTCAGGTTCTTGCTCAACAGCAGTATGAA  
CAGCTAACACATGCAATGAAATTTACTAAAGCTCAAGCAGTTGTTTACTGCACATGTTCAAGTTTTCAG  
AAGAAAATGAAGCTGTTGTTAAGAAAGCACTGGAATTTCAAGACCTTGGGAATAAAGGACAACCTTACAG  
CGGGACCCCTCTGAGACAGTGTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



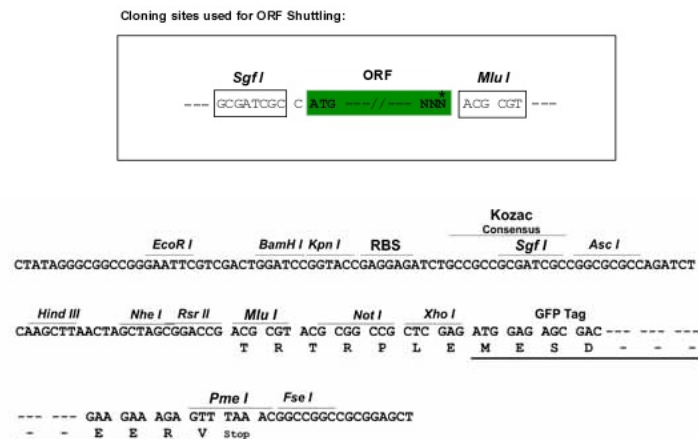
**Protein Sequence:** >RG207175 representing NM\_024677  
Red=Cloning site Green=Tags(s)

MLNSTGELEFSNEEDPEIISQLTSLPLSGGKSSAGVPEKTGYPDSVYVMAANIFQGIRIEKSAQKVLIKY  
GNEPLRSLSESEDQSFQRLSYELAFSALKYQDILETILIDSCIFPSTTIPDHLSSLIIIVMLYDFQDRKFQ  
TRVLSDNEEPISEVQEVENLLNSFKIKLAAALARCRIKHDALSIYHILPETVRKQELRASTLPLYAWINT  
CKISPEEVYNNLKRRGYNKVSVLHIDDKVFAVDQHCYDVLIFPSHLKNDLINIDLFKDYKLIFQDKSRS  
LAVHSVKALLNMDDVLMVNTGWSYVAHMSILTNNNTSKVFVCGVQSQAQKDPDLKTLFTKIGCKNIEIL  
HEKFINIESKDHRLQKVKIVILLPRCSGLGVSNPVEFILNEHEDTEFLKDHSSQGGISVDKLHVLAQQQYE  
QLTHAMKFTKAQAVVYCTCSVFPEENEAVVKALEFQDLGNKGQPYSGTLRLRQCL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_024677

**ORF Size:** 1425 bp

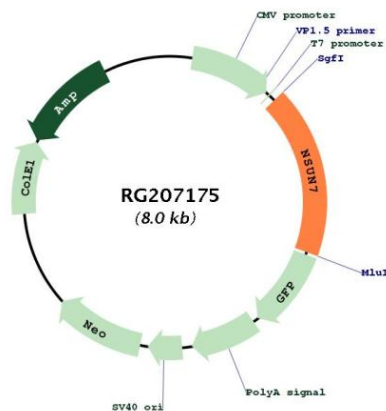
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u>NM_024677.3, NP_078953.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 3562 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2157 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 79730                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cytogenetics:</b>          | 4p14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Summary:</b>          | May have S-adenosyl-L-methionine-dependent methyl-transferase activity.[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Product images:**



Circular map for RG207175