

## Product datasheet for **RG230137**

### **NSUN5 (NM\_001168347) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NSUN5 (NM_001168347) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NSUN5
Synonyms:	NOL1; NOL1R; NSUN5A; p120; p120(NOL1); WBSCR20; WBSCR20A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230137 representing NM\_001168347  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGGGCTGTATGCTGCAGCTGCAGGCGTGTGGCCGGCTGGAGAGCCGCCAGGGCTCTATCAAGGGGT  
 TGGTGTACTCCAGCAACTTCCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTC  
 CGCCGTGCTGGATGCTGTGATCGCCAGCGCCGGCTCCTCCGTGCGGAGAAGAAGCTGCGCCCGACCTG  
 GCCAAGGTGCTAGTGTATGAGTTGTTGTTGGGAAAGGGCTTTCGAGGGGGTGGGGCCGATGGAAGGCTC  
 GTTGGGCGGCACCAGGCGAGGCTCAAGGCTGAGTTGGCTCGGCTCAAGGTTTCATCGGGGTGTGAGCCG  
 GAATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTCCAGCTGCCTCGATTTGTGCGTGTG  
 AACACTCTCAAGACCTGCTCCGATGATGTAGTTGATTATTTCAAGAGACAAGGTTTCTCCTATCAGGGTC  
 GGGCTTCCAGCCTCGATGACTTACGAGCCCTCAAGGGGAAGCATTTTCTCCTGGACCCCTTGATGCCGA  
 GCTGCTGGTGTTCGCGCCAGACAGATCTGCATGAACACCCACTGTACCGGGCCGACACCTCATTCTG  
 CAGGACAGGGCCAGCTGTCTCCAGCCATGCTGCTGGACCCCGCCAGGCTCCCATGTCATCGATGCTCT  
 GTGCCGCCAGGCAATAAGACCAGTCACTTGGCTGCTTCTGAAGAACCAAGGGAAGATCTTTCGCTT  
 TGACCTGGATGCCAAGCGGCTGGCATCCATGGCCACGCTGCTGGCCCGGGCTGGCGTCTCTTGTGTGAA  
 CTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTCGGATCCACGCTACCATGAGGTCCACTACATCCTGC  
 TGGATCCTTCTCGAGTGGCTCGGGTATGCCGAGCAGACAGCTGGAGGAGCCCGGGCAGGCACACCTAG  
 CCCGGTGGCTCGATGCCCTGGCAGGGTTCAGCAGCGAGCCCTGTGCCACGCGCTCACTTCCCTTCC  
 CTGCAGCGGCTCGTCTACTCCACGTGCTCCCTTGCCAGGAGGAGAATGAAGACGTGGTGCAGATGCGC  
 TGCAGCAGAACCAGGGCGCTTCCAGGCTAGCTCCCGCCCTGCCTGCGTCCCGCCACCGAGGCTGAGCAC  
 GTTCCCGGTGCCGAGCACTGCCTCCGGGCTCCCTGAGACCACACTCAGCAGTGGCTTCTTCTGCTGCT  
 GTAATTGAACGGGTGAGGTGCCAAGCCTCACAGGCCAAAGCATCAGCACCAGAACGCACACCCAGCCCA  
 GCCCAAAGAGAAAGAAGAGACAGCAAAGAGCCGAGCCGGTGTGTCACACCGCCTTGCACATAGCAGA  
 GGCTCCGGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230137 representing NM\_001168347  
 Red=Cloning site Green=Tags(s)

MGLYAAAAGVLGAVESRQGSIKGLVYSSNFQNVKQLYALVCETQRYSAVLDAVIASAGLLRAEKKLRPHL  
 AKVLVYELLLGKFRGGGRWKALLGRHQARLKAELARLKVHRGVSARNEDLLEVGSRPGPASQLPRFVVRV  
 NTLKTCSDVDVDFYKQGF SYQGRASSLDDLRLKKGKHFLLDPLMPELLVFPAQTDLHEHPLYRAGHLIL  
 QDRASCLPAMLLDPPPGSHVIDACAAPGNKTSHLAALLKNQKIFAFDLDAKRLASMATLLARAGVSCCE  
 LAEEDFLAVSPDPRYHEVHYILLDPSCSGSGMPSRQLEEPGAGTSPVRLHALAGFQQRALCHALTFPS  
 LQRLVYSTCSLCQEENEDVVRDALQQNPGAFRLAPALPAWPHRGLSTFPGAHEHLRASPETTLSSGFFVA  
 VIERVEVPSLTGQSISTRHTQPSPEKEETAKSRSRCLHTALHIAEAPG

TRTRPLE – GFP Tag – V

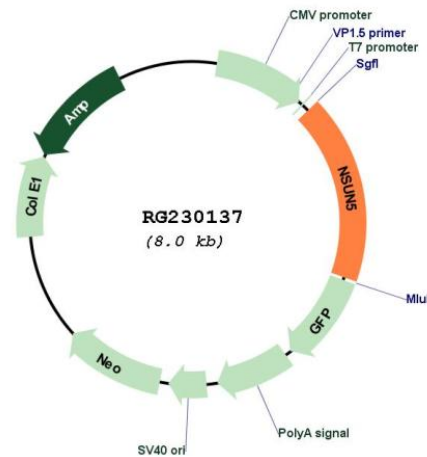
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001168347

ORF Size: 1410 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\\_001168347.1](#), [NP\\_001161819.1](#)

**RefSeq Size:** 2371 bp

**RefSeq ORF:** 1413 bp

**Locus ID:** 55695

**UniProt ID:** [Q96P11](#)

**Cytogenetics:** 7q11.23

**Gene Summary:** This gene encodes a member of an evolutionarily conserved family of proteins that may function as methyltransferases. This gene is located in a larger region of chromosome 7 that is deleted in Williams-Beuren syndrome, a multisystem developmental disorder. There are two pseudogenes for this gene located in the same region of chromosome 7. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]