

Product datasheet for **RG200144**

NSUN5 (NM_148956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSUN5 (NM_148956) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG200144 representing NM_148956
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGTATGCTGCAGCTGCAGGCGTGTGGCCGGCTGGAGAGCCGCCAGGGCTCTATCAAGGGGT
 TGGTGTACTCCAGCAACTTCCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTC
 CGCGTGTCTGGATGCTGTGATCGCCAGCGCCGGCTCCTCCGTGCGGAGAAGAAGCTGCGGCCGCACCTG
 GCCAAGGTGCTAGTGTATGAGTTGTTGTTGGAAAGGGCTTTCGAGGGGGTGGGGCCGATGGAAGGCTC
 TGGTGGGCGGCACCAGGCGAGGCTCAAGGCTGAGTTGGCTCGGCTCAAGTTTCATCGGGGTGTAGCCG
 GAATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTCCAGCTGCCTCGATTGTGCGTGTG
 AACACTCTCAAGACCTGCTCCGATGATGATGTTGATTATTTCAAGAGACAAGTTTCTCCTATCAGGGTC
 GGGCTTCCAGCCTCGATGACTTACGAGCCCTCAAGGGGAAGCATTTTCTCCTGGACCCCTTGATGCCGA
 GCTGCTGGTGTTCGCGCCAGACAGATCTGCATGAACACCCACTGTACCGGGCCGACACCTCATTCTG
 CAGGACAGGGCCAGCTGTCTCCAGCCATGCTGCTGGACCCCGCCAGGCTCCCATGTCATCGATGCTT
 GTGCCGCCAGGCAATAAGACCAGTCACTTGGCTGCTTCTGAAGAACCAAGGGAAGATCTTTCGCTT
 TGACCTGGATGCCAAGCGGCTGGCATCCATGGCCACGCTGCTGGCCCGGGCTGGCGTCTCTTGTGTGAA
 CTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTCGGATCCACGCTACCATGAGGTCCACTACATCCTGC
 TGGATCCTTCTCGAGTGGCTCGGGTATGCCGAGCAGACAGCTGGAGGAGCCCGGGCAGGCACACCTAG
 CCCGGTGGCTCTGCATGCCCTGGCAGGGTTCAGCAGCGAGCCCTGTGCCACGCACTCACTTCCCTTCC
 CTGCAGCGGCTCGTCTACTCCACGTGCTCCCTTGCCAGGAGAGAATGAAGACGTGGTGCAGATGCGC
 TGCAGCAGAACC CGGGCGCTTCCAGGCTAGCTCCCGCCCTGCCTGCTGCCCCACCGAGGCTGAGCAC
 GTTCCCGGGTGGCGAGCACTGCCTCCGGGCTCCCTGAGACCACACTCAGCAGTGGCTTCTTCTGTTGCT
 GTAATTGAACGGGTGAGGTGCCAAGCTCAGCCTCACAGGCCAAAGCATCAGCACCAGAACGCACACCCA
 GCCAGCCCCAAAGAGAAAGAAGAGACAGCAAAGAGCCGAGCCGGTGTGACACCCGCTTGCACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200144 representing NM_148956
 Red=Cloning site Green=Tags(s)

MGLYAAAAGVLAGVESRQGSIKGLVYSSNFQNVKQLYALVCETQRYSAVLDAVIASAGLLRAEKKLRPHL
 AKVLYVEYELLLGKFRGGGGRWKALLGRHQARLKAELARLKVHRGVSARNEDLLEVGSRPGPASQLPRFVRV
 NTLKTCSDDVVDYFKRQGF SYQGRASSLDDL RALKGKHFLLDPLMPELLVFPAQTDLHEHPLYRAGHLIL
 QDRASCLPAMLLDPPPGSHVIDACAAPGNKTSHLAALLKNQKIFAFDLDAKRLASMATLLARAGVSCCE
 LAEEDFLAVSPSPRYHEVHYILLDPSCSGSGMPSRQLEEPGAGTSPVRLHALAGFQQRALCHALTFPS
 LQRLVYSTCSLCQEENEDVVRDALQQNPGAFRLAPALPAWPHRGLSTFPGAHEHLRASPETTLSSGFFVA
 VIERVEVPSSASQAKASAPERTPSPAPKRKRQRAAAGACTPPCT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_148956

ORF Size: 1398 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_148956.1](#), [NP_683759.1](#)

RefSeq Size: 1647 bp

RefSeq ORF: 1401 bp

Locus ID: 55695

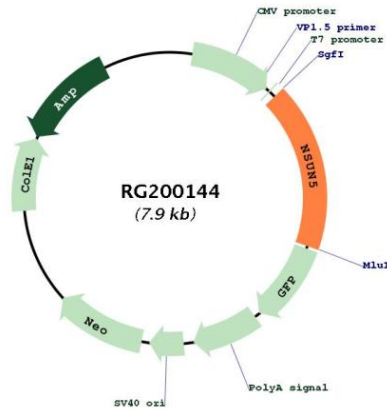
UniProt ID: [Q96P11](#)

Cytogenetics: 7q11.23

Domains: N011_Nop2_Sun

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]

Product images:



Circular map for RG200144