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Product datasheet for RG229982

NSUN5 (NM_001168348) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSUN5 (NM_001168348) 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)

ORF Nucleotide Sequence:

>RG229982 representing NM_001168348
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCTGTATGCTGCAGCTGCAGGCGTGTTGGCCGGCGTGGAGAGCCGCCAGGGCTCTATCAAGGGGT
TGGTGTACTCCAGCAACTTCCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTC
CGCCGTGCTGGATGCTGTGATCGCCAGCGCCGGCCTCCTCCGTGCGGAGAAGAAGCTGCGGCCGCACCTG
GCCAAGGTTCATCGGGGTGTGAGCCGGAATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCT
CCCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGATGATGTAGTTGATTATTTCAA
GAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGCCTCGATGACTTACGAGCCCTCAAGGGGAAGCAT
TTTCTCCTGGACCCCTTGATGCCGGAGCTGCTGGTGTTTCCCGCCCAGACAGATCTGCATGAACACCCAC
TGTACCGGGCCGGACACCTCATTCTGCAGGACAGGGCCAGCTGTCTCCCAGCCATGCTGCTGGACCCCCC
GCCAGGCTCCCATGTCATCGATGCCTGTGCCGCCCCAGGCAATAAGACCAGTCACTTGGCTGCTCTTCTG
AAGAACCAAGGGAAGATCTTTGCCTTTGACCTGGATGCCAAGCGGCTGGCATCCATGGCCACGCTGCTGG
CCCGGGCTGGCGTCTCTTGCTGTGAACTGGCTGAGGAGGACTTCCTGGCGGTCTCCCCCTCGGATCCACG
CTACCATGAGGTCCACTACATCCTGCTGGATCCTTCCTGCAGTGGCTCGGGTATGCCGAGCAGACAGCTG
GAGGAGCCCGGGGCAGGCACACCTAGCCCGGTGCGTCTGCATGCCCTGGCAGGGTTCCAGCAGCGAGCCC
TGTGCCACGCGCTCACTTTCCCTTCCCTGCAGCGGCTCGTCTACTCCACGTGCTCCCTCTGCCAGGAGGA
GAATGAAGACGTGGTGCGAGATGCGCTGCAGCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCT
GCCTGGCCCCACCGAGGCCTGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCCTCCCCTGAGACCA
CACTCAGCAGTGGCTTCTTCGTTGCTGTAATTGAACGGGTCGAGGTGCCAAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

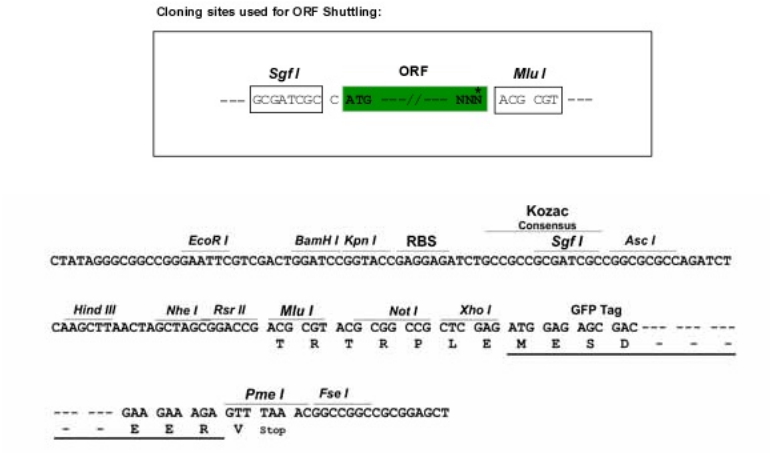
>RG229982 representing NM_001168348
Red=Cloning site Green=Tags(s)

MGLYAAAAGVLAGVESRQGSIKGLVYSSNFQNVKQLYALVCETQRYSAVLDAVIASAGLLRAEKKLRPHL
AKVHRGVSRNEDLLEVGSRPGPASQLPRFVRVNTLKTCSDDVVDYFKRQGFSYQGRASSLDDLRALKGKH
FLLDPLMPELLVFPAQTDLHEHPLYRAGHLILQDRASCLPAMLLDPPPGSHVIDACAAPGNKTSHLAALL
KNQGKIFAFDLDAKRLASMATLLARAGVSCCELAEEDFLAVSPSDPRYHEVHYILLDPSCSGSGMPSRQL
EEPGAGTPSPVRLHALAGFQQRALCHALTFPSLQRLVYSTCSLCQEENEDVVRDALQQNPGAFRLAPALP
AWPHRGLSTFPGAEHCLRASPETTLSSGFFVAVIERVEVPR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001168348

ORF Size: 1173 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_001168348.1, NP_001161820.1

RefSeq Size: 2332 bp

RefSeq ORF: 1176 bp

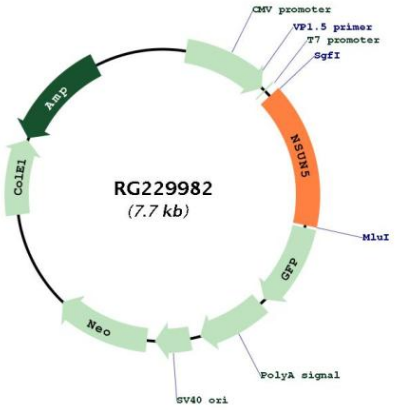
Locus ID: 55695

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]

Product images:



Circular map for RG229982