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Product datasheet for RG202811

NSL1 (NM_015471) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSL1 (NM_015471) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NSL1
Synonyms:	C1orf48; DC8; MIS14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG202811 representing NM_015471
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGGTTTCCTGAGTTGGTGGTCCTTGACCCTCCATGGGACAAGGAGCTCGCGGCTGGCACAGAGA
GCCAGGCCTTGGTCTCCGCCACTCCCCGAGAAGACTTTCGGGTGCGCTGCACCTCGAAGCGGGCTGTGAC
CGAAATGCTACAACTGTGCGGCCGCTTCGTGCAAAAGCTCGGGGACGCTCTGCCGGAGGAGATTCGGGAG
CCCGCTCTGCGAGATGCGCAGTGGACTTTTGAATCAGCTGTGCAAGAGAATATCAGCATTAATGGGCAAG
CATGGCAGGAAGCTTCAGATAATTGTTTTATGGATTCTGACATCAAAGTACTTGAAGATCAGTTTGATGA
AATCATAGTAGATATAGCCACAAAACGTAAGCAGTATCCCAGAAAGATCCTGGAATGTGTCATCAAAACC
ATAAAAGCAAAACAAGAAATTCTGAAGCAGTACCACCCTGTTGTACATCCACTGGACCTAAAATATGACC
CTGATCCAGCCCCTCATATGGAAAATTTGAAATGCAGAGGGGAAACAGTAGCAAAGGAGATCAGTGAAGC
CATGAAGTCCTTGCCTGCATTAATTGAACAAGGAGAGGGATTTTCCCAAGTTCTCAGGATGCAGCCTGTT
ATCCACCTCCAGAGGATTCACCAAGAAGTCTTTTCCAGTTGTCATAGGAAACCAGATGCTAAACCTGAGA
ACTTTATAACACAGATAGAAACCACACCAACAGAGACTGCTTCCAGGAAAACCTCTGACGTGGTACTGAA
AAGAAAGCAAACTAAAGACTGCCCCCAGAGAAAATGGTATCCATTGCGGCCAAAGAAAATTAATCTTGAT
ACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

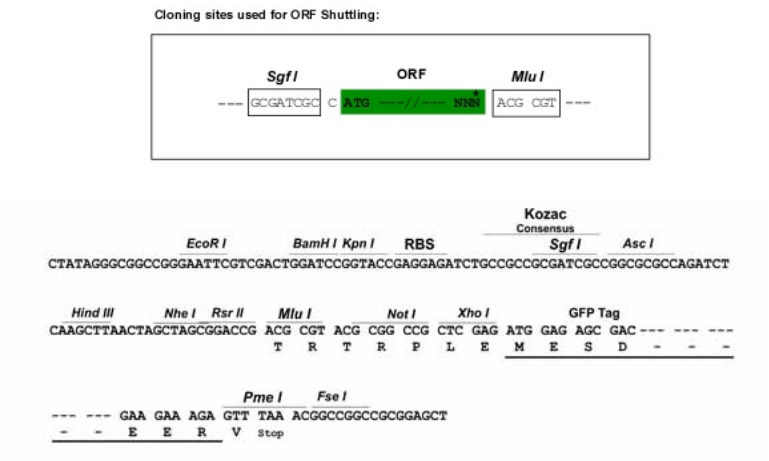
>RG202811 representing NM_015471
Red=Cloning site Green=Tags(s)

MAGFPELVVLDPPWDKELAAGTESQALVSATPREDFRVRCTSKRAVTEMLQLCGRFVQKLGDALPEEIRE
PALRDAQWTFESAVQENISINGQAWQEASDNCFMDSDIKVLEDQFDEIIVDIATKRKQYPRKILECVIKT
IKAKQEILKQYHPVVHPLDLKYDPDPAPHMENLKCRGETVAKEISEAMKSLPALIEQGEGFSQVLRMQPV
IHLQRIHQEVFSSCHRKPDAKPENFITQIETTPTETASRKTSDVVLKRKQTKDCPQRKWYPLRPKKINLD
T

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015471

ORF Size: 843 bp

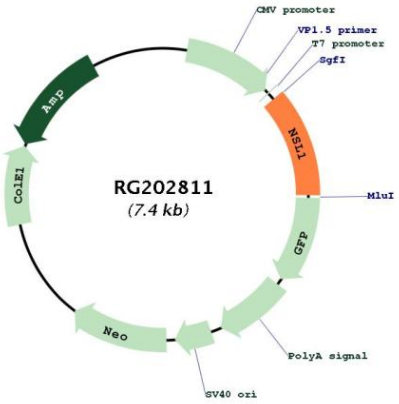
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_015471.3, NP_056286.3
RefSeq Size:	13148 bp
RefSeq ORF:	846 bp
Locus ID:	25936
UniProt ID:	Q96IY1
Cytogenetics:	1q32.3
Gene Summary:	This gene encodes a protein with two coiled-coil domains that localizes to kinetochores, which are chromosome-associated structures that attach to microtubules and mediate chromosome movements during cell division. The encoded protein is part of a conserved protein complex that includes two chromodomain-containing proteins and a component of the outer plate of the kinetochore. This protein complex is proposed to bridge centromeric heterochromatin with the outer kinetochore structure. Multiple transcript variants encoding different isoforms have been found for this gene. There is a pseudogene of the 3' UTR region of this gene on chromosome X. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG202811