

Product datasheet for **RN209659**

lws1 (NM_001034918) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	lws1 (NM_001034918) Rat Untagged Clone
Tag:	Tag Free
Symbol:	lws1
Synonyms:	RGD1304762
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN209659 representing NM_001034918
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTCGGAGTACTACAGCGGTGACCAGTCAGATGATGGTGGTGAACCCAGTACAGGACGAGCGGG
 ATTCAGGGTCAGATGGTGAAGGATGATGTAACGAGCAGCACTCCGGATCCGACACTGGAAGGTAGACCG
 CCATTCAGAGAATGAAACTAGTGATAGAGAAGATGGCTTGACCAAGATACATAATGGAACAGACTCTGAG
 AATGATGAGCCCTCCAATGTTTCATGCCAGTGACTCTGAAAGTGAGGAGCTTACAGGCCAAAAGACAGTG
 ACTCTGAATCCGAGGAACATGCAGAGTCTCCTGCCAGTGATTCTGAAAACGAAGCTGCCACCAGCAGGG
 GAGTGACTCTGAAAAGGAAGAGCTTCTTAATGGGCATGCAAGTGACTCTGAAAAGGAAGAGGGTAGAAA
 CATGCAGCCAGTGACTCTGAAACCGAGGACACTCTGCAGCCTCAGGCAGCGAGTCTGACAGTGAAGATC
 CCCAAGGCCACAGGCCAGTGATTAGAAAAGCGAGGAGCCTCCCAAACCTCGGATCAGTGATTAGAAA
 CGAGGAGCTCCCAAACCTCGGATCAGTGACTCAGAAAAGTGAGGATCCTCCAAGGCCCAGTCTGAGTAC
 TCAGAAAAGTGAGGAGCTCCCAAACCCGAGTCAAGTATTAGAAAAGTGAGGATCCCCAAAGGCCACAGG
 CTAGTGACTCGGAAAGTGAGGAGCTCCCAAACCCGAGTCAAGGACTCGGAAAGTGAGGACCCTCAGAA
 AGGACCTGCTAGTGATTCTGAAGCTGAGGATGCCTCCAGACATAAAGAAAAGCCAGAGTCAAGGACAGT
 GATGGGGAGAATAAGAGGGAAGACTCTGAAGTGCAGAAATGAGTCAAGCGCCATGCAGACAGAAAAGGAC
 TCCACAGCTCTGCAGCGAGGAGGAAGAACCAGAGGCAAAAAGATTGACAGTGTGACGACGGAGAAAA
 GGAGGGGGATGAGAAAAGTAGCAAAGCGGAAGGCTGCCGTGCTTTCTGATAGTGAGGACGAAGACAAA
 TCAGCAGCAAAGAAGAGTCGAGTTATCTCTGATGCTGATGATTCTGATAGTGTGATGTTGATCAGACAA
 CAGGCAAAAAGAGAGAAGACCGGTAGCATCTGATAGTGAAGAAGAAGTCCGGAAAAGAAGTCTTCTGTAAA
 GAAGAGTGAAGAGAAGGATCTGTTGGGAGTGATAGTGAATCAGGCAATGAAGAAGAAAATCTTATTGCA
 GATATATTTGGAGAATCTGGTGTGAAGAGGAAGGAATTTACAGGATTTAACCAGAAGATTTGGAGG
 AAGAGAAAAATGAAACACAGCTAAAAGAAGCAGAAGATTCTGATTCGACGATAACATAAAGAGAGGAAA
 GCATATGGACTTTCTGTGAGATTTTGGATGATGTTACAACGAAAAAAGAGCATGTGTGGCAAACGAGA
 CGAAATCGAGATGGGGCACTTTTATTAGTGACGCAGATGATGTCGTGAGTGCCATGATTGTCAAGATGA
 ACGAAGCTGCTGAGGAAGACAGGCAATGAATAATCAAAAAAGCCTGCTCTGAAAAATTAACCTTATT
 GCCTACTGTGGTTATGCACCTTAAAAAGCAGGACCTTAAAGAAACATTTATTGACAGTGGTGTGATGCT
 GCCATTAAGAGTGGCTCTCACCTTACCAGATAGGAGTTTGCTGCACTGAAGATTCGGGAGGAATTGT
 TAAAGATTCTGCAAGAGCTACCTAGTGTGAGCCAAGAGACCTGAAGCACAGTGGGATTGGCCGAGCAGT
 GATGTATCTGTATAAACATCCTAAGGAATCAAGGTCCAACAAGGACATGGCAGGGAACTAATCAATGAG
 TGGTCTCGGCCATATTTGGTCTTACCTCAAACATAAAGGAATGACAAGAGAAGAAAGGGAGCAGAGAG
 ATCTAGAACAATGCCACAGCGACGAAGAATGAGCAGCACTGGTGGTCAGACACCACGAAGAGACCTGGA
 AAAGGTAACAGGAGAGGAAAAGGCTTTAGACCTGGAGATCCTGGCTTCTGTGCCGTGCGAGAGTC
 CCAATGCCATCAAACAAGGACTATGTTGTGAGGCCAAGTGAATGTAGAAATGGAGTATCCAGGCCTG
 GTATTTAAAAAGGGTCTAAGTCGATTGAAAAGCATAAAGAGGCGTTTGCAGAGCAGAAGAGGCTCAG
 CCAAATGCACCGTCTGTCAAGTTCAGCATCGAAGGCAACAGAATGCCCTGT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001034918
Insert Size: 2295 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>NM_001034918.1</u> , <u>NP_001030090.1</u>
RefSeq Size:	3010 bp
RefSeq ORF:	2295 bp
Locus ID:	291705
UniProt ID:	<u>Q3SWT4</u>
Cytogenetics:	18p12
Gene Summary:	Transcription factor which plays a key role in defining the composition of the RNA polymerase II (RNAPII) elongation complex and in modulating the production of mature mRNA transcripts. Acts as an assembly factor to recruit various factors to the RNAPII elongation complex and is recruited to the complex via binding to the transcription elongation factor SUPT6H bound to the C-terminal domain (CTD) of the RNAPII subunit RPB1 (POLR2A). The SUPT6H:IWS1:CTD complex recruits mRNA export factors (ALYREF/THOC4, EXOSC10) as well as histone modifying enzymes (such as SETD2) to ensure proper mRNA splicing, efficient mRNA export and elongation-coupled H3K36 methylation, a signature chromatin mark of active transcription (By similarity).[UniProtKB/Swiss-Prot Function]