

## Product datasheet for **MC221450**

### **lws1 (NM\_173441) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	lws1 (NM_173441) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	lws1
Synonyms:	1700069O15Rik; 3000008H23; AL117927; AW214353
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221450 representing NM\_173441  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTCGGAGTACTACAGCGGGACCAGTCAGATGATGGTGGTGAACCCAGTACAGGACGAGCGGG  
 ATTCAGGGTCAGATGGTGAAGGATGGTGTAAACCGAGCAGCACTCCGGATCCGACACTGGAAGGTAGACCA  
 CCACTCAGAGAATGAAACTAGTGATAGAGAAGATGGCTTGGCCAAGATACATAATGGAACAGACTCTGAG  
 AATGATGAACCTTCCAATGCTAATGCCAGTGACTCTGAAAGTGAGGAGCTTACAGGCCAAAGGACAGTG  
 ACTCTGACTCTGAGGAGCATGCAGAGTCTCTGCTAGTGATTCTGAAAATGAACCTGTCAACCAACATGG  
 GAGCGACTCTGAAAATGAAGAGCTGCTTAAATGGGCATGCCAGTGACTCTGAAAAGGAAGAGGTTAGCAAG  
 CATGCCGCCAGTGACTCTGAAGCTGAGGACACTCTGCAGCCTCAGGTGAGCGAGTCTGACAGTGAAGATC  
 CCCCAAGGCCCCAGGCCAGTGACTCAGAAAATGAGGAGCCTCCCAAACCTCGGATAAGTGACTCGGAGAG  
 TGAGGAGCTCCCAAACCCGAGTCAGTGACTCAGAAAAGTGAGGACCCTCCAAGGCCCCAGGCCAGTGAC  
 TCAGAAAAGCGAGGAGCTCCCAAACCCGAGTCAGCGACTCTGAAAGTGAGGACCCTCCAAGGCCCCAGG  
 CCAAGTGACTCAGAAAAGCGAGGAGCTCCCAAACCCGAGTCAGCGACTCTGAAAGTGAGGACCCTCAGAA  
 AGGACCTGCTAGTGATTCTGAAGCTGAGGATGCCTCCAGACACAAAGAGAAGCCAGACTCAGATGACAGT  
 GATGGGGAGAATAAGAGGGAAGATTCTGAAGTGCAGAAATGAGTCAGATGGCCATACAGACAGAAAAGGAC  
 TCCACAGCTCTGACAGCGAGGAGGAAGAACCACAAAAGGCCAAAAAATTGACAGTGTATGATGAAGAAAA  
 GGAGGGGGATGAGGAGAAAGTAGCAAAGCGGAAGGCTGCTGTGCTTTCTGATAGTGAGGATGACCGAGGC  
 AACGCATCAGCAAAGAAGAGTCGAGTTGTCTGTGATGCTGATGACTCTGATAGTGATGTTGTATCGGACA  
 AGTCAGGCCAAACGAGAGACAACAGTAGCATCTGACAGTGAAGAAGAAGCCGGGAAAGAAGAGTCTTCTGT  
 GAAGAAGAAGGAAGACAAGGACCTGTTTGGGAGTGACAGTGAGTCCGGCAATGAAGAAGAAAATCTTATT  
 GCAGATATATTTGGAGAATCTGGTGATGAAGAGGAAGAGGAATTTACGGTTTTAAACCAAGAAGATTTGG  
 AGGAAGAGAAAAACGAAACACAGCTAAAGGAAGCAGAAGATTCTGATTCTGATGATAACATAAAGAGAGG  
 CAAGCATATGGACTTTCTGTGAGATTTTGTGATGTTACAACGAAAAAAGCATGTGTGGCAAACGC  
 AGACGAAATCGAGATGGGGCCTTTTATTAGTGATGCAGATGATGTTGTGAGCGCCATGATTGTCAAGA  
 TGAATGAAGCTGCTGAGGAAGACAGACAATTGAATAATCAAAAAAGCCAGCTCTGAAAAAATTAACCTT  
 ATTGCCCTACTGTGTTATGCACCTTAAAAAGCAGGACCTTAAAGAAACATTTATTGACAGTGGTGTGATG  
 TCTGCCATTAAGAATGGCTCTCACCTTACCAGATAGGAGTTTGCCTGCACTGAAGATTCGGGAGGAAT  
 TGTAAAGATTCTGCAAGAGCTACCTAGTGTGAGCCAAGAGACCCTGAAGCATAGTGGGATTCGCCGAGC  
 AGTGATGTATCTGTATAAACACCCTAAGGAATCAAGGTCCAACAAGGATATGGCAGGGAAGCTCATCAAT  
 GAGTGGTCTCGGCCCATATTTGGTCTTACCTCAAACATAAAGGAATGACAAGAGAAGAAAGGGAACAGA  
 GAGATCTAGAACAAATGCCACAGCGACGAAGATTGAGCAGCACTGGTGGTCAGACACCACGAAGAGACCT  
 GGAGAAGGTCCTAACAGGAGAAGAAAAGGCTCTTAGACCTGGAGATCCTGGCTTCTGTGCCCGTGAAGA  
 GTCCCAATGCCATCAAACAAGGACTATGTTGTGAGGCCAAGTGGAAATGTAGAAATGGAGTCATCCAGGT  
 TTCAGGCATCCTCAAGAAGGATCAGTCGACTGGATAAACAGATGAGAAAGTTCACAGATATCAGGAA  
 AAAAAGCAGATCTGCACATGCAGTGA AAAATCAGCATCGAGGGCAATAAAAATGCCATT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_173441  
**Insert Size:** 2301 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_173441.3</a> , <a href="#">NP_775617.1</a>
<b>RefSeq Size:</b>	9623 bp
<b>RefSeq ORF:</b>	2301 bp
<b>Locus ID:</b>	73473
<b>UniProt ID:</b>	<a href="#">Q8C1D8</a>
<b>Cytogenetics:</b>	18 B1
<b>Gene Summary:</b>	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]