

Product datasheet for **MR208664**

lws1 (BC068184) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	lws1 (BC068184) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR208664 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGACTCGGAGTACTACAGCGGGACCAGTCAGATGATGGTGGTGCAACCCAGTACAGGACGAGCGGG
 ATTCAGGGTCAGATGGTGAAGGATGGTGTAAACGAGCAGCACTCCGGATCCGACACTGGAAGGTAGACCA
 CCACTCAGAGAATGAACTAGTGATAGAGAAGATGGCTTGGCCAAGATACATAATGGAACAGACTCTGAG
 AATGATGAACCTTCCAATGCTAATGCCAGTGACTCTGAAAGTGAGGAGCTTCACAGGCCAAAGGACAGTG
 ACTCTGACTCTGAGGAGCATGCAGAGTCTCTGCTAGTGATTCTGAAAATGAACCTGTCAACCAACATGG
 GAGCGACTCTGAAAATGAAGAGCTGCTTAATGGGCATGCCAGTGACTCTGAAAAGGAAGAGGTTAGCAAG
 CATGCCGCCAGTGACTCTGAAGCTGAGGACACTCTGCAGCCTCAGGTGAGCGAGTCTGACAGTGAAGATC
 CCCCAGGCCCCAGGCCAGTGACTCAGAAAATGAGGAGCCTCCAAACCTCGGATAAGTGACTCGGAGAG
 TGAGGAGCTCCCAAACCCGAGTCAGTGACTCAGAAAGTGAGGACCCTCCAAGGCCCCAGGCCAGTGAC
 TCAGAAAGCGAGGAGCTCCCAAACCCGAGTCAGCGACTCTGAAAGTGAGGACCCTCCAAGGCCCCAGG
 CCAAGTGACTCAGAAAGCGAGGAGCTCCCAAACCCGAGTCAGCGACTCGGAAAGTGAGGACCCTCAGAA
 AGGACCTGCTAGTGATTCTGAAGCTGAGGATGCCTCCAGACACAAAGAGAAGCCAGACTCAGATGACAGT
 GATGGGGAGAATAAGAGGGAAGATTCTGAAGTGCAGAATGAGTCAGATGGCCATACAGACAGAAAAGGAC
 TCCACAGCTCTGACAGCGAGGAGGAAGAACCCAAAAGGCAAAAAATTGACAGTGATGATGAAGAAAA
 GGAGGGGGATGAGGAGAAAGTAGCAAAGCGAAGGCTGCTGTGCTTTCTGATAGTGAGGATGACGCAGGC
 AACGCATCAGCAAAGAAGAGTCGAGTTGCTGTGATGCTGATGACTCTGATAGTGATGTTGTATCGGACA
 AGTCAGGCAAACGAGAGACAACAGTAGCATCTGACAGTGAAGAAGAAGCCGGGAAAGAAGAGTCTTCTGT
 GAAGAAGAAGGAAGACAAGGACCTGTTTGGGAGTGACAGTGAGTCCGGCAATGAAGAAGAAAAATCTTATT
 GCAGATATATTTGGAGAATCTGGTGATGAAGAGGAAGAGGAATTTACGGTTTTTAACCAAGAAGATTTGG
 AGGAAGAGAAAAACGAAACACAGCTAAAGGAAGCAGAAGATTCTGATTCTGATGATAACATAAGAGAGG
 CAAGCATATGGACTTTCTGTGAGATTTTGTGATGTTACAACGAAAAAAGCATGTGTGGCAACGC
 AGACGAAATCGAGATGGGGCACTTTTATTAGTGATGCAGATGATGTTGTGAGCGCCATGATTGTCAAGA
 TGAATGAAGCTGCTGAGTAAGCTCTTCTAGGTTACCCTTCTCCCTCCTGCCCTCAACCAATTGATGG
 GGTGGCAATCTTCTCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

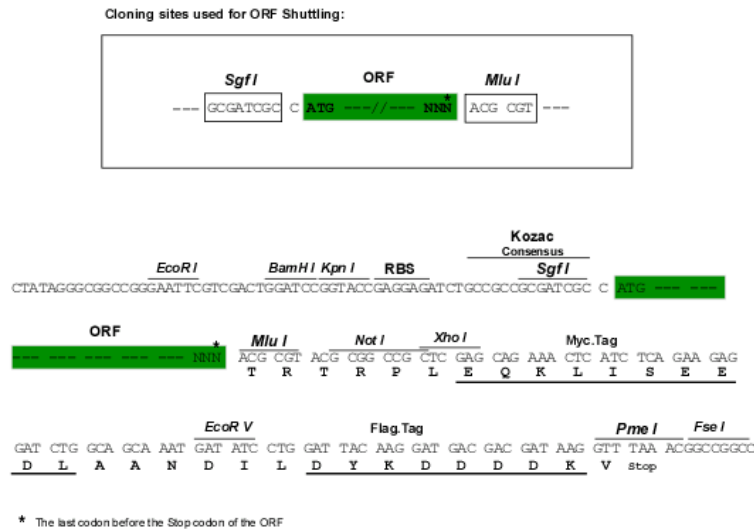
>MR208664 protein sequence
 Red=Cloning site Green=Tags(s)

MDSEYYSGDQSDDGATPVQDERDSGSDGEDGVTEQHSQSDTGSVDHSENETSDREDGLAKIHNGTDSE
 NDEPSNANASDSESEELHRPKDSDSDEEHAESPASDSENEPVNHQSDSENEELLNGHASDSEKEEVSK
 HAASDSEAEDTLQPQVSESDSDPPRPQASDSENEEPPKPRISDSESEELPKPRVSDSESDPPRPQASD
 SESEELPKPRVSDSESDPPRPQASDSESEELPKPRVSDSESDPQKGPASDSEAEDASRHEKPKDSDS
 DGENKREDSEVQNESDGHTDRKGLHSSDSEEEPKRQKIDSDDDEEKEGDEEKVAKRKAAYLSDSDDAG
 NASAKKSRVVCADDSDSDVSDKSGKRETTVASDSEEEAGKEESSVKKKEDKDLFGSDSESGNEEENLI
 ADIFGESGDEEEETGFNQEDLEEEKNETQLKEAEDSDSDDNIRGKHMDFLSDFEMMLQRKSMCGKR
 RRNRDGGTFISDADDVVSAMIVKMNEAAEVSSRLPFPSPALNQIDGVANLSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC068184

ORF Size: 1629 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: [BC068184](#), [AAH68184](#)

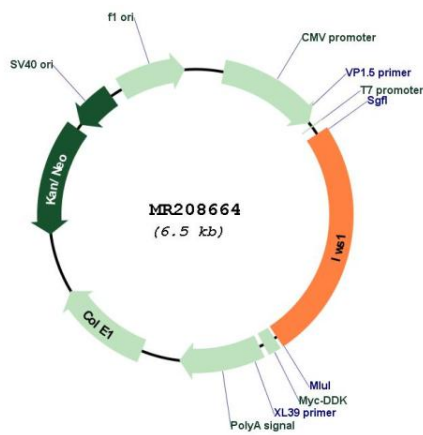
RefSeq Size: 4353 bp

RefSeq ORF: 1631 bp

Locus ID: 73473

Cytogenetics:	18 B1
MW:	59.3 kDa
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]

Product images:



Circular map for MR208664