

## Product datasheet for **MG208664**

### **lws1 (BC068184) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | lws1 (BC068184) Mouse Tagged ORF Clone        |
| Tag:                      | TurboGFP                                      |
| Symbol:                   | lws1                                          |
| Synonyms:                 | 1700069O15Rik; 3000008H23; AL117927; AW214353 |
| Mammalian Cell Selection: | Neomycin                                      |
| Vector:                   | pCMV6-AC-GFP (PS100010)                       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                        |



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**ORF Nucleotide Sequence:**

>MG208664 representing BC068184  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTCGGAGTACTACAGCGGGGACCACTCAGATGATGGTGGTGCAACCCAGTACAGGACGAGCGGG  
 ATTCAGGGTCAGATGGTGAAGGATGGTGTAAACGAGCAGCACTCCGGATCCGACACTGGAAGGTAGACCA  
 CCACTCAGAGAATGAACTAGTGATAGAGAAGATGGCTTGGCCAAGATACATAATGGAACAGACTCTGAG  
 AATGATGAACCTTCCAATGCTAATGCCAGTGACTCTGAAAGTGAGGAGCTTCACAGGCCAAAGGACAGTG  
 ACTCTGACTCTGAGGAGCATGCAGAGTCTCTGCTAGTGATTCTGAAAATGAACCTGTCAACCAACATGG  
 GAGCGACTCTGAAAATGAAGAGCTGCTTAATGGGCATGCCAGTGACTCTGAAAAGGAAGAGGTTAGCAAG  
 CATGCCGCCAGTGACTCTGAAGCTGAGGACACTCTGCAGCCTCAGGTGAGCGAGTCTGACAGTGAAGATC  
 CCCCAGGCCCCAGGCCAGTGACTCAGAAAATGAGGAGCCTCCAAACCTCGGATAAGTGACTCGGAGAG  
 TGAGGAGCTCCCAAACCCGAGTGACTGACTCAGAAAAGTGAGGACCCTCCAAGGCCCCAGGCCAGTGAC  
 TCAGAAAAGCGAGGAGCTCCCAAACCCGAGTGACGAGTCTGAAAGTGAGGACCCTCCAAGGCCCCAGG  
 CCACTGACTCAGAAAAGCGAGGAGCTCCCAAACCCGAGTGACGAGTCTGAAAGTGAGGACCCTCAGAA  
 AGGACCTGCTAGTGATTCTGAAGCTGAGGATGCCTCCAGACACAAAGAGAAGCCAGACTCAGATGACAGT  
 GATGGGGAGAATAAGAGGGAAGATTCTGAAGTGCAGAATGAGTCAGATGGCCATACAGACAGAAAAGGAC  
 TCCACAGCTCTGACAGCGAGGAGGAAGAACCCAAAGGCCAAAAATTGACAGTGATGATGAAGAAAA  
 GGAGGGGGATGAGGAGAAAGTAGCAAAGCGAAGGCTGCTGTGCTTTCTGATAGTGAGGATGACGCGGC  
 AACGCATCAGCAAAGAAGAGTCGAGTTGCTGTGATGCTGATGACTCTGATAGTGATGTTGTATCGGACA  
 AGTCAGGCAAACGAGAGACAACAGTAGCATCTGACAGTGAAGAAGAAGCCGGGAAAGAAGAGTCTTCTGT  
 GAAGAAGAAGGAAGACAAGGACCTGTTTGGGAGTGACAGTGAGTCCGGCAATGAAGAAGAAAAATCTTATT  
 GCAGATATATTTGGAGAATCTGGTGATGAAGAGGAAGAGGAATTTACGGGTTTTAACCAAGAAGATTTGG  
 AGGAAGAGAAAAACGAAACACAGCTAAAGGAAGCAGAAGATTCTGATTCTGATGATAACATAAAGAGAGG  
 CAAGCATATGGACTTTCTGTGAGATTTTGTGATGATGTTACAACGAAAAAAGCATGTGTGGCAACGC  
 AGACGAAATCGAGATGGGGCACTTTTATTAGTGATGCAGATGATGTTGTGAGCGCCATGATTGTCAAGA  
 TGAATGAAGCTGCTGAGTAAGCTCTTCTAGGTTACCCTTCTCCCTCCTGCCCTCAACCAATTGATGG  
 GGTGGCAATCTTCTCTT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208664 representing BC068184  
 Red=Cloning site Green=Tags(s)

MDSEYYSGDQSDDGATPVQDERDSGSDGEDGVTEQHSGETGSVDHSENETSDREDGLAKIHNGTDSE  
 NDEPSNANASDSESEELHRPKDSDSDSEEHAESPASDSENEPVNQHSSENEELLNGHASDSEKEEVSK  
 HAASDSEADTLQPQVSESDSEDPPRPQASDSENEEPPKPRISDSESEELPKPRVSDSESDPPRPQASD  
 SESEELPKPRVSDSESDPPRPQASDSESEELPKPRVSDSESDPQKGPASDSEADASRHEKPDSDSDS  
 DGENKREDSEVQNESDGHTDRKGLHSSDSEEEPKRQKIDSDDDEEKEGDEEKVAKRKAAYLSDSEDDAG  
 NASAKSRVVCADDSDSDVSDKSGKRETTVASDSEEEAGKEESSVKKKEDKDLFGSDSESGNEEENLI  
 ADIFGESGDEEEEFTEFNQEDLEEEKNETQLKEAEDSDSDDNIRGKHMDFLSDFEMMLQRKSMCGKR  
 RRNRDGGTFISDADDVVSAMIVKMNEAAEVSSSRLPFSPALNQIDGVANLSL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-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

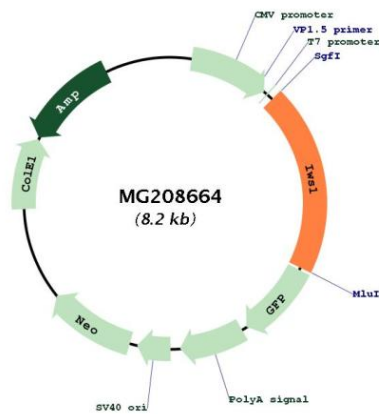
**RefSeq ORF:** 1631 bp

**Locus ID:** 73473

**Cytogenetics:** 18 B1

**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 MG208664