

Product datasheet for **MC220056**

Lrwd1 (NM_027891) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrwd1 (NM_027891) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lrwd1
Synonyms:	1200011O22Rik; AU042569; AW548074; Orca
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220056 representing NM_027891
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCCTCTCACGCCCAACTGCTCCTGCAACGTGGGCGACCAAGACGGATAAGCTGGGAAGATTC
 AGAGTTTGAATCTGTCGGGGCTGCAGCTGCTCTCAGAGCACTTGGATCCCAATCTCCTGGGGCGCCTGAA
 GAAGCTGAGGGAACCTTGACCTCTCTAACAACCTGCTGGAGACGCTGCCTGCTAACCTGGGCTGTCCCAT
 CTGCGCATCCTTCGCTGTACCAACAACCAGCTCGGGGATGCTACTGCCTTGACACAGTTCACAGAACTTG
 AGGAGCTCAATCTGGAAGGCAACCCCTTCTGACGGTCAGTGACAACCTCAAAGTCTCCTTTCTCCTGCC
 CAAGCTTCGTAAGGTGAATGGCAAGGACACGGCTCCACCTGCTCACAGGTGGAGAATCTAGATCGGGAG
 CTGATGGACAGGGTCACAGCTCACTGGCAGAAGTTCATAGCCACTGTGAGCCCTGAGGAGGAAACTGACA
 AGGTGCGGGCTGATTTTCATGAGGTCTGCAGTCAGGGATGTGTGTTACGGCCCTGAGTCGCTCATCGAGTT
 CACGCAGTGGCGGGTGGGATGATCGCCGAGGAACTGGTGGCCTCAGGTGGGGCCAGGTGCAAGACGCT
 AAGGTCCCGTGGAGCATCCCCAGGCTGCAGGTGCCTCCAAGTTCAGGGCCAGAGAGGTGGCTTCAAAC
 GGCCAGGTAAAGACCCAGTCACCCTTCTCCAGCAAGCGAGTGCCTGCTCTCCACCTGCTCAGGCTGA
 GGGCAGTCTATGGGTGCTGATGGAGGGCAGGCTGCCCTACACCTGGAACCCCTGCACCTTCTGCAGTGT
 CATAGCAGAAACAACAGCCCAAAGGACCTGGAGACCCAGCTGTGGGCCTGTGCCTTTGAGCCGGCCCGGG
 AGGAGGGGCACCTCGAGGGCCACATCCCAGACCTGGCCACATGTGGTGGAGAGGCTGTTTGCCTGATAGA
 CTGCCAGACAGCCCTCGTACTCCATAAGTACAAGTACCAGGCGAGGAGTTCTTCTCAGTGGCCTGGACA
 GCCCTCACGGTGGTCACCCAGGCAGGCCACAAGAAGCGCTGGAACATGCTAGCAGCTCAGGCCTCCGCG
 GCATGGTCCGGCTGCTGCATGTTTCGCGCAGGCTTCTGCTGCAGCGTCATCCGGGCCATAAGAAGGCCAT
 TGCCACCCTCTGCTTTCAGCCCCAGCCATGAGACTCACCTTCTCACTGCCTCCTACGACAAACGGATCATC
 CTCTGGGACATTGGGGTGCCTAACCCAGGATTACAAGTTCAGGCTAGCCAGCTCCTCACGCTCAACTGTG
 GTTCTGTCCCCTTGCCTCTGTCTGTTGCCACCTGCCAGATGACTTCTGCTGGCTGGCTGTGAGGG
 TGGCTGCTACTGCTGGGACGTGCGGCTAGACCAGCCCCAGAAGCAAAGGGTGTGTGAGGTGAACTTCATC
 TTCTCTGAGGACTCCAAGGTGTCAGGACAAGAGTCGATGGGCTGGCATTGTGAATGAAGATGTGGTGG
 CCTCAAAGGGAGTGGACAGGGCACCATCTACCTGTGGAGCTGGAGCCAGACATGGGCAGGCCGGGGCAG
 ACAGTCTGTGTTGCCCGTAGTCATCCTGGTCCGGCTGCAGTGGTCAACCCAACTGGCCTACTTTTCA
 CTCAGCACCTGTCCCGGCAAAAACCTCGTGTGTGGGGACGAGGAAGGCAGTGTGTGGATCTATGATG
 TTGAACACCTCCTGAAAGAGCCTCCACAGGCAACAACCTGTCAGCCCCAACACAGATCCTGAAGTGGCC
 TCAGCCAACAGCATTGGGCCAACAGTACCAAGACCATGATAAACACAGTCGTGGCCAATGCAGCCTTC
 ACCTACCTCACTGCCCTGACAGACTCCAACATCGTGTCCATCTGGAGGAGATGCT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_027891

Insert Size: 1947 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:	NM_027891.4 , NP_082167.2
RefSeq Size:	2201 bp
RefSeq ORF:	1947 bp
Locus ID:	71735
UniProt ID:	Q8BUI3
Cytogenetics:	5 G2
Gene Summary:	Required for G1/S transition. Recruits and stabilizes the origin recognition complex (ORC) onto chromatin during G1 to establish pre-replication complex (preRC) and to heterochromatic sites in post-replicated cells. Binds a combination of DNA and histone methylation repressive marks on heterochromatin. Binds histone H3 and H4 trimethylation marks H3K9me3, H3K27me3 and H4K20me3 in a cooperative manner with DNA methylation (By similarity). Required for silencing of major satellite repeats. May be important ORC2, ORC3 and ORC4 stability.[UniProtKB/Swiss-Prot Function]