

Product datasheet for **SC108154**

LRWD1 (NM_152892) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRWD1 (NM_152892) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRWD1
Synonyms:	CENP-33; ORCA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC108154 sequence for NM_152892 edited (data generated by NextGen Sequencing)

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ATGGGCCCCCTCTCGGCGCGGCTGCTAATGCAGCGCGGGCGCCCCAAGAGCGACCGGCTG
GGGAAGATCCGGAGTCTGGACCTGTGAGATTGGAGCTGCTTCCGAGCACCTGGACCCC
AAACTCCTGTGCCGCTGACGACGTGCAGGAGCTTGACCTGTCTAACAACCACTGGAG
ACGCTGCCGGACAACCTGGGCTGTCCACCTGCGTGTCTCCGCTGCGCCAACAACAG
CTGGGGGATGTTACTGCCTTGCCAGTTCCCCAAGCTCGAGGAACCTAGCCTGGAGGGC
AACCCCTTCTGACGGTCAATGACAACCTGAAAGTCTCCTTTCTCTGCCCACGCTCCGT
AAGGTCAATGGCAAGGATGCGTCTCAACTTACTCTCAGGTGGAGAACCTGAATCGGGAG
CTGACCAGCAGGGTCACAGCTCACTGGGAGAAGTTCATGGCCACACTGGGTCTGAAGAG
GAGGCTGAGAAGGCCAGGCGGACTTTGTGAAGTCGGCTGTGAGGATGTCCGCTACGGG
CCCGAGTCCCTCAGCGAGTTCACCCAGTGGCGGGTGGGATGATCTCTGAGGAGCTGGT
GCCGCCAGTAGGACCCAGGTGCAAAAGGCTAACAGCCAGAGAAGCCCCAGAAGCTGGA
GCTGCCACAAGCCAGGCCAGACTGGCGGCTTGAAACGGCCAGACGACGTCCCACTC
AGCCTCTCTCCAGCAAGCGGGCTGTGCCTCCCGTCGCGCCAGGTGGAGGGCAGCCCT
GTGGCAGGCTCCGATGGCAGCCAGCCTGCTGTGAAGCTGGAGCCCTGCACCTTCTGCAG
TGCCACAGCAAGAACAACAGCCCCAGGACCTCGAGACCCAGCTGTGGGCTGTGCCTTC
GAGCCGGCTGGGAGGAGGGGGCCACATCCAGACCGTGGCCACGTGCGGCGGGGAGGCT
GTGTGCGTAATTGATTGCCAGACGGGCATCGTGTCCACAAGTACAAGGCACCCGCGAG
GAGTTCCTTTCTGTGGCTGGACCGCTCTGATGGTGGTACACAGGCTGGCCACAAGAAG
CGTGAGGTGTGCTGGCGGCTGCAGGCTACGGGGCTGGTCCGGCTGCTGCACGTGCGT
GCCGGCTTCTGCTGCGGGGTATCCGAGCCACAAGAAGGCCATCGCCACCCTGTGCTTC
AGCCCCGCCACGAGACCCATCTCTTACGGCTCCTATGACAAGCGGATCATCCTCTGG
GACATCGGGGTGCCAACAGGACTACGAATTCAGGCCAGCCAGCTGCTCACACTGGAC
ACCACCTCTATCCCCCTGCGCCTCTGCCCTGTGCTCCTGCCCCGACGCGCGCTGCTG
GCCGGCTGCGAGGGCGGCTGCTGCTGCTGGGACGTGCGGCTGGACCAGCCCCAAAAGAGG
AGGGTGTGTGAAGTGGAATTCGTCTTCTGAGGGCTCCGAGGCATCTGGACGGAGAGTG
GATGGGCTGGCATTGTGAATGAGGACATCGTGGCTCCAAGGGAGCGGCTGGGCACC
ATCTGCCTGTGGAGCTGGAGGCAGACGTGGGGGGCGGGGAGCCAGTCCACAGTGGCA
GTGGTGGTCTGGCGGGCTGCAATGGTCGTCCACCGAGTTGGCTACTTCTCGCTCAGC
GCCTGCCCTGATAAGGGGATTGTGCTCTGTGGGATGAGGAGGGCAACGTGTGGCTCTAC
GACGTGACCAACATCCTGAAGCAGCCACCCTGCTGCCGGCAGCCCTGCAGGCCCCACA
CAGATCCTGAAGTGGCCCCAGCCCTGGGCCCTTGCCAGGTGGTACCAAGACCATGGTG
AACACAGTGGTGGCAATGCCTCCTTACCTACCTACCGCCCTGACGGACTCCAACATC
GTAGCCATCTGGGGGAGGATGTAG
```

Clone variation with respect to NM_152892.1
1614 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152892 unedited
 TGGCAACATTTGTATACGACTACTATAGGCGGCCGGAATTCGCACCAGCCGGGCTCCA
 GGAGACGCAGGGCGACGCCACACGCCGGGTGGCCGACTGGGTACGCGGGGCTGCGCCT
 CCTCGCCATGGGCCCCCTCTCGGCGCGGCTGCTAATGCAGCGGGGCGCCCCAAGAGCGA
 CCGGCTGGGGAAGATCCGGAGTCTGGACCTGTCAGGATTGGAGCTGCTTTCCGAGCACCT
 GGACCCCAAACTCCTGTGCCGCTGACGCAGCTGCAGGAGCTTGACCTGTCTAACAACCA
 CCTGGAGACGCTGCCGGAACAACCTGGGCTGTCCACCTGCGTGTCTCCGCTGCGCCAA
 CAACCAAGCTGGGGATGTTACTGCCTTGTGCCAGTTCCTCAAGCTCGAGGAACCTCAGCCT
 GGAGGGCAACCCCTTCCTGACGGTCAATGACAACCTGAAAGTCTCCTTTCTCTGCCAC
 GCTCCGTAAGGTCAATGGCAAGGATGCGTCTCACTTACTCTCAGGTGGAGAACCTGAA
 TCGGGAGCTGACCAGCAGGGTCACAGCTCACTGGGAGAAGTTCATGGCCACACTGGGTCC
 TGAAGAGGAGGCTGAGAAGGCCAGGCGGACTTTGTGAAGTCGGCTGTCAGGGATGTCCG
 CTACGGGCGGAGTCCCTCAGCGAGTTCACCCAGTGGCGGGTGGGATGATCTCTGNAGA
 GCTGGTGGCCGACAGTAGGACCCANGTGCAAAAGGCTAACAGCCAGAGAAGCCCCCAGA
 AGCTGGAGCTGCCACAAGCCCCAGGCCAGACTGGCGGCNCTTGAACGGNCAGACGACGT
 NCCACTCAGCCTCTCTCAGCAAGCGGGCGTGTGCCTNCCCGTCGNCCAGTGGAGGGC
 ANNCNCCTGTGGCAGCTCCGATGGCAGCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152892 unedited
 NNNGGTTTTGCTATGGAACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTT
 TTTTTTCTTGTCCACAGTAGAGTTTAATAAAATATTCACTGAAAGACCCCCCCCCACCC
 CCATCGGCCCAAAGCTGAATAAGTTAGTTAGCTGTGTCCCTGGTCTTTGCGATGGTGTG
 AGGCTACATCCTCCCCAGATGGCTACGATGTTGGAGTCCGTGAGGGCGGTGAGGTAGGT
 GAAGGAGGCATTGGCCACCACTGTGTTACCATGGTCTTGGTCAACACCTGGCCAAGGGC
 CCAGGGCTGGGGCACTTTAGGATCTGTGTGGGGCCTGCAGGGCTGCCCGCAACAGGGG
 TGGCTGCTTCAAGAAGTTGCTGACCTTTAAAGCCCAACGTTTCCCTCTCATCCCCCA
 AAGCACAATCCCTTTATCAGGCAGGCGCTGAGCGAAAAGTANGCCCACTCGGTGAACGA
 CATTGCAGCCGCGCCAGGACCACTGCCACTGTGGACTGGCTGCCCGGCCCCCCCAC
 GTCTGCCTCCAGCTCCACAGGCAGATGGTGCCAGGCGGCTCCCTTGGAGGCCACGATG
 TCCTCATTCACAAATGCCAGCCCATCCACTCTCCGTCCAGATGCCTCGGAGCCCTCAGAG
 AAGACGAATTCACCTTCCACACCCCTCCTCTTTTGGGGCTGGTCCAGCCGACGTCCAG
 CAGCAGCAGCCGCTTCGAGCCGGCCAGCAGGCGGGCGTCCGGGAGGAGGCGACAGGG
 CAAAGGCGCAGGGGGATAGAGGTGGTGTCCAGTGTGAGCAGCTGGCTGGCTGGAATTCTG
 TAGTCTGGTGGGCACCCGATGTCCAGAGATGATCCGCTGTCATG

Restriction Sites:

NotI-NotI

ACCN:

NM_152892

Insert Size:

2350 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:	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_152892.1, NP_690852.1</u>
RefSeq Size:	2220 bp
RefSeq ORF:	1944 bp
Locus ID:	222229
UniProt ID:	<u>Q9UFC0</u>
Cytogenetics:	7q22.1
Domains:	LRR, WD40
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene interacts with components of the origin recognition complex (ORC) and regulates the formation of the prereplicative complex. The encoded protein stabilizes the ORC and therefore aids in DNA replication. This protein is required for the G1/S phase transition of the cell cycle. In addition, the encoded protein binds to trimethylated histone H3 in heterochromatin and recruits the ORC and lysine methyltransferases, which help maintain the repressive heterochromatic state. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015] Transcript Variant: This variant (1) encodes the longer isoform (1).