

## Product datasheet for **MC220900**

### 2610301G19Rik (BC038346) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	2610301G19Rik (BC038346) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	2610301G19Rik
Synonyms:	MGC7730, mKIAA1967
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC038346  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGTCCCAGTTTAAAGCGCAGAGGATCAACCCACTTCCAGGGGGACGCAACTTCTCAGGCGCAGCTTCAA  
CATCTCTTTTGGGCCCTCCCCCTGGTCTACTTACTCCTCCTGTGGCCACAGACCTGTCCAAAATGCCAG  
GCACCTTCAGAGTGGGAAAAGCAGCGAGTCTTACAGGCATTGTTACCAGCTTGATGACTACTTTGGG  
GTGGTAGATGAAGAAGTCTTTTTTCAGCTAAGTGTGGTGAAGGGTCTGACTGCCCCAGCTGGGGGAGAAGG  
TGCTGGTGAAGGCCGATACAACCCAGGCCAGGCCGTGCCCTGGAATGCTGTCAAGGTGCAGACGCTCTC  
CAACCAGCCCTTACTGAAGTCTCCAGCGCCTCCCCTTCTGCACGTGGCAGCTCTGGGCCAGAAGCAAGGG  
ATCCTGGGAGCTCAGCCCAGCTGATCTTTCAGCCTCACCGAATCCCCCCTTTTCCCTCAGAAGCCTC  
TGAGTCTCTTCCAGACATCCCACACACTTACCTGAGCCACTGAACAGATTTCTGCTCGGGGTCTCA  
TGGAAGGTGGACCAGGGCCGAAGTGTACTGACTGCAAGAAACGCAACAGCGGGCTGGCGGAGAG  
CCTTGGGGTGTAAAGAACTAGGCATGACCTGTCTCCTTACCGGTTTACTCTACTCCCTATACTGTGG  
ACAGTCCCACCTGTGACTTCTAGAAGTGCAGCGACGTTACCGCAGCCTGTTGGTCCCCTCAGATTTCTT  
TTCCGTTCACTTGAGCTGGCTGTGAGCCTTCCCTCTGGGCCAGCCCTTTTCCCTCCACCACCAAGTCGG  
ATCCAGGTCTCTTTCAGAGAAGGAGGCAGCTCCAGACACTGGTGTGAGCCAGCCCTGAGGACAGTGACC  
CCACTTACAGTCCAAGGTGCTGCTGCTCCTCCCCAGGCCGGAGGAGTTCTATCGTTGCTGCATGCT  
GTTTGTGGATGACATGGCTGAGCCAAGGGAGACACCAGAGCATCCTCTGAAGCAGCTAAAGTTTTGCTG  
GGCCGAAAGAAGAAGAGGCAGTGTGGTTGGGGGTGAGTGGTCTCCTTCCCTGGATGGCCTCGACCCCC  
AGGCACCCCGCAGGTGCTGGTGGCAGCCATCCGCTGTGCACAAGCCAGACTGGCATTGAGTGTAG  
CACCTGCACCAAATGGTGGCGCTTTGCTGAGTTTCAAGTACTTACAGCCGGGGCCCGCCCGCAGTTACAC  
ACAGTAGTGGTGTACCTGCCAGACGTGTGGACCATCATGCCACTTTGGAGGAGTGGGAGGCACTGTGCC  
AACAGAAAGCCACGGAGGCAGCTCCCCAACCATGAGGCATCAGGGGAAGCAGAGGCTACTGAACAGGC  
TCCTGATGTGTCAGAGCAAGCAGACACTTAAACAGAACACAGAGACAATGGAGGCCACCACACAGCAA  
GATGTGGACACTGATCTCCAGAGGCCCTCCGCCTCCTCTAGAACCTGCTGTGATGGCCCGTCTCGCT  
GTGTCAACCTGTCTTTATGGAATTGTGGAGGATCGGAGGCCAAAAGAAAGGATCTCTTTTGGAGTAGT  
GGTGTGGCTGAGCTGTTTGTAGAGATGCTGCAGAGGGATTTGGCTATAGAATTTATAAGACGCTGCTG  
AGCCTTCCAGAAAAGTTGTGTCTCCTCCTGAACCTGAGAAGGAGGAGGCCAGCAAAGAAGATGCGGTCA  
AAGAGGAGGAGGCTGTCAAAGAGGAGGCAGTGAAGGTGTCCAAGGATGAGGTACAGAATGAGGGCAGC  
TGCCGAGTCAGACAGCCCACTGAAGGAGGATGGGCTTCTGCCAAACGGCCCTTTCAGGGGGAGAAGAG  
GAGGAAAAGGCCCGGGGCGAGGGCGGCTGAGGACCTCTGTGAGATGGCCTTGGACCCAGACCTGCTGCTGC  
TGCGGGATGATGGAGAGGACGAATTTGCAGGAGCAAAGCTAGAGGAAACAGAGGTTGTTTCTGTTGCCTC  
AAACCAGTCAGAGATGGAATATTTCTTCTTTCAGGACATGCCTAAGGAGCTGGATCCCTCAACTGTGCTC  
CCCCTGGACTGTCTTTTGGCTTTTGTGTTTTTGTGATGCCAACTGGTGTGGCTACTTGCTCAGGCGAGACT  
TGGAGAGGGTCTCCTCACACTAGGATCCGGCTCAGTGCAGAGCAGGCCAAACAGTTGGTTAGTAGAGT  
GGTGGCAGACAACATCTGCCAGTACCGGAGCCTTCAAGTACAGCCGTGTAAGTGTGACGATGGCCTT  
CCTGAAGACGTGCTCTTCGGAAAACCTGGATCTACTGCCTCCTTTCAGGGAAGAGCACAAGCCAGGTGCTG  
CCCCACAGAGCACAAGGCCTGGTGGCCACAATGGTAGCCTCATCAATGTGGGAAGCCTGTTACAGCG  
TGCAGAGCAGCAAGACAGTGGCCGCTATACCTGGAGAACAAGATTACACACTGGAAGTGAAGCTTGGAG  
GAGAGCCATAACCGCTTCTCAGCCACTGAGGTGACAAAATAAGACTGAGCAGAGATGCAGGAGCTGC  
GGGCCCGGCTGGCCGAGGAGGAGGACGGCCGGACAGCAGAGCGACAGAAGAACCAGCTCCAGCGACA  
GATGCAGGACTTCCGAGGCGCTGACCCCACTGCACCTTGAAGTGCAGCGGATTGTTGAGAAGGCTGAC  
AGCTGGGTAGAGAAAAGAGGCCAACGCCTAGCAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGAT AAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	BC038346
Insert Size:	2769 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"><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>
RefSeq:	<u><a href="#">BC038346</a></u> , <u><a href="#">AAH38346</a></u>
RefSeq Size:	3701 bp
RefSeq ORF:	2768 bp
Locus ID:	219158
Cytogenetics:	14 D2

**Gene Summary:**

Core component of the DBIRD complex, a multiprotein complex that acts at the interface between core mRNP particles and RNA polymerase II (RNAPII) and integrates transcript elongation with the regulation of alternative splicing: the DBIRD complex affects local transcript elongation rates and alternative splicing of a large set of exons embedded in (A + T)-rich DNA regions. Inhibits SIRT1 deacetylase activity leading to increasing levels of p53/TP53 acetylation and p53-mediated apoptosis (By similarity). As part of a histone H3-specific methyltransferase complex may mediate ligand-dependent transcriptional activation by nuclear hormone receptors (By similarity). Inhibits SUV39H1 methyltransferase activity. Plays a critical role in maintaining genomic stability and cellular integrity following UV-induced genotoxic stress (By similarity) Regulates the circadian expression of the core clock components NR1D1 and ARNTL/BMAL1. Enhances the transcriptional repressor activity of NR1D1 through stabilization of NR1D1 protein levels by preventing its ubiquitination and subsequent degradation. Acts as a regulator of PCK1 expression and gluconeogenesis by a mechanism that involves, at least in part, both NR1D1 and SIRT1 (PubMed:24415752). Negatively regulates the deacetylase activity of HDAC3 and can alter its subcellular localization (PubMed:21030595). Plays an important role in tumor suppression through p53/TP53 regulation; stabilizes p53/TP53 by affecting its interaction with ubiquitin ligase MDM2 (PubMed:25732823). Represses the ligand-dependent transcriptional activation function of ESR2. Positively regulates the beta-catenin pathway (canonical Wnt signaling pathway) and is required for MCC-mediated repression of the beta-catenin pathway. Represses ligand-dependent transcriptional activation function of NR1H2 and NR1H3 and inhibits the interaction of SIRT1 with NR1H3. Represses the transcriptional activator activity of BRCA1. Inhibits SIRT1 in a CHEK2 and PSEM3-dependent manner and inhibits the activity of CHEK2 in vitro (By similarity).[UniProtKB/Swiss-Prot Function]