

Product datasheet for **MC229621**

2810474O19Rik (NM_001289662) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: 2810474O19Rik (NM_001289662) Mouse Untagged Clone
Tag: Tag Free
Symbol: 2810474O19Rik
Synonyms: 6720435I21Rik; AA536804; AU020969; GET; Kiaa1551
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229621 representing NM_001289662
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAATTGGAATACAAAACAAGAGAATGTTCCAAACCCACCATATTCTAAAACCCAGTCATCTATCT
TGCAGCATTTTTAATGACTTCTACAACATCTCAAAGTCTTTCAACTATTCTCCCATAACCAAGAAGC
ATCTCAAACCTTTTCAACTATTCTCTCCATAACCAAGAAGCATGCATGTATTCTGGGAATTCAAATTCA
GTTTCACAGCCACTTCTGAGCGGCAGAAATTATATAACTCCTCAGACTCAGATCTCTGTTTCTAATATGC
CTACCAGAACAATTGTGGCCTCACAGTCTTCAATGGAAAAGAGTTGTATCTACAAATGGTAAAGGACCACA
ACAACCAAACCACAATTTGCAAACAGTGTCTTCAGGAATTATGCAGAATGTCTGGTTGCCTTCCCATAACA
GAAGCAACCATATCTCATAATCCCGACGGAGGGACTAATATGCCTTACATGCATCCACCACAGAATCAGC
TTGTCACATCAGATACCTATTCTATGCAACTACAAATGGCTCCTTTACATTCTGGAAAAGTACCTATGAC
ACATCAAGGAAGTCAGGGACTTAATCACTTCATACCAGATCAGTTGGTTGACTGGACACAGTATACATCC
AACGAACCTTTCTATCCTGAATACAGGCCACCTCCAAGCAATACTCCTACATACTGCCAGCTACTACAT
CATTACAAGTTAAAAATAATCAGCTCCCAACTTATACACAGAGCTTACAGTCAAAGCATTCTGTACCTTT
GTCATCACATCAGTATGCTGCAGAAGCCAGCAAAGACTCTGCCCTTCTTACAGCTGTAGATATGAA
AACCAACATGTGCAGAATGCTCAGCCTGTTTCTAAACACTTGCCTATGGAAGTCTCAGAGTTCAGAAG
TGCACTCATCTGAAAAAAGAAAGATACTTACAGAGGCTTTAAGCAGCAGTGGCAGAACCCTAATGAGAA
AGTCAGCATTGGACAATTCTCTGAGGTGAAAAATAAATACAAGCAGCCTTACAGTGAATCTGTTAGACCT
TCTGGGGATGGTGTTCAGGCCTTGTTCAAAATAATCAAGAAAAAAGAAAATATACCTACAATCCTAATA
CAAATCAAGTAATAGATACAAAAGCCACAAAAGAAAAGCTGGTGAGGGATATTAATCTCTAGTAGAAAT
CAAAAAGAAGTTTTCAGAACTTGAAGAAAAATAAAAATAAATAAAGTCTTTTGATGCCAGCTGGTTGT
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AAAAACCACAGAAGAAAATGTTCCAAAACCTTTAGAAGAAAAACAGTGTAAACACATCAAGAATCAGTACA
ACCGTAGTGGCAGTGCCAATCCCAAAATGAAGTTTCATGTTAAGAGTTTGTGTTCTGGTGTGAAATT



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CTCAGAAAATGATGAGCTCATCAAAACAGTATTGCCAGTTCTCATACCGAGCTGTGAGTCTCCGGTGT
 AGCTGTAGGAAAAGAACAGAGCTTCAGATTGCTGTGGTGTGCGCTTTAGTTCTTTCAGATACTAATACC
 TTACCTGGAAAAGACTCAGTGCCTGAAGTTTTACCTGAAACACTGTATCCAGTTGTTAAGGAAGGTAGTG
 TTTGTAGCTTACAAACCAACCAACAGAACTGTTGCTTTACCTTTTGATGTTATAGGAGCTGTAGCAAG
 TAATAACATATCAGCAGAGATTCCTCTGCTGTGATAAGGAAAAGCAGCACAACCAATACAGGGTGT
 CCAGACATAGCTGATAGCAGCTTAGGAAAACACTCTCCCTGGGCACTGAAGTTCTGCCTAAGCCTATGG
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 TTACAATTCAGATAGCTGAGATATTTCAACTCTGTACAAACTGAGCCCCAGAAAACCTTACCTAATCAG
 GTAATTGATAGTCAACAAGAACAAGTATATGATACCACTGAAAATAAAGACTTTAGCTTACAGAAAGATA
 AGTGTGTACAGTGTACAGATGTTCTCATGAGGTCCCTGAGCAGCCAGAGCCTCTGCAGCCTGAAGAGCC
 AGCATCTAGTGTATGTGGAAGCAAACAGAGAAGCCACAGAGGAAAGCTGTAGGGAGTACACTGGTAGA
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 ATACCTACATGACCAGCTGTGAGAGCTTTTAAAGAGTTCCTTATGGCATTGAAACTTTTAAACAGACAT
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 TGCTCTGGGGATAGCACAGACAAAATAAAAAATTACAGTATTAAGTCTGAACAAAATCAAAGAACTATTTCC
 TGAAGATGATCAGCCCTGTGACAAGTTGGCGGAACCTGAGAATAAAGAAATTTGTCGGAAGTAAAGAGC
 CCATGTGACTCACAGATTCCTAGAGAAGAAAGTATGACCTTGGAAATGTTGGATCCAGAGAAAGACAAAA
 TCCATTGCTGTGCTTGGTTGGCTCTCAATGGTGTATGAAGGTGTGCCACAGTGTATTGACAGTCTAC
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 GGAATCACTATTTTTGAAATTAATCCTGTTTCTAATAACTCAAAAACCTCTGACCCAAGCAACTGAGG
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 GGAATAGCCTGTCATTTTTCACTAAATGTTACAAAAAAGATAAAAAAGGTAATTTTTAAAAAAGGCAT
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 AATGCAATAAGATAGCAGCCCTGAAATACTTCACTGTAACAACCTTCTAACTCTGCTAAAAATATGCCATT
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 CCTATAGAACTTTCGTCAAACACAGATCCGTGCAGGAGTAATACCTCTTTCAGTACAGTCAATCACCAG
 AAAAGAAAAAACTAAAATTCAAAGCAGGTGGCTCCAGGTTGAAATTTTTGAAAAAGAAAGACGGATCA
 CGTTATTATTCCAGATGTAGAAAATAAAAAAGAAGAAATATGAAAAGCAAGAACAGAACAAAAATGCTGGA
 GACACACTCAAATGTGAGTATTCTTACAGAGTCAAATGAAAGAGCCAGTGTTCAGAAAAGACAGTTC
 CAAGTCTGAGTCTCAGACCCAAAGGGTAGCTCTCTAAGAGTACTAGAGTTATAACAGTGCAGGAATA
 TTTACAACGGCAGAAAGCAAAACAAATAACTGGGAATAATGCTTCCAGAAACATCTGTGTAGAAACTGTG
 CTATGTGACTCGGGGCACACGAAGACCAGTAAGCATTCTGCAGCAGTAAGCTGGGAAAAGTTAGTTGAGG
 GGCAGAGTATCAGTGCAGAGACTGCAAAAAGAACTGGAACATAATTCTAGCAGCCATGGTAAAGACTTCAA
 GATCCATCACTCTGAGGCGTCTAGAACACACAGTGTGTCAAATAATAAAGGAAAAGTTTATGTTGGGAA
 CAGCCTGATAAAATGTTTAAAAAAGAACAGTATGAATAATGAGTCCAACCAGATGCCTCTCCAGGTAA
 AAGAACAAGGAAACAGTACTTGAATCGAGTTGCGTTTAAATGCACAGAACGGGAAAGCATATGTCTCAC
 CAAATTTGGATAGTGCATCCAAGAAGCTTAGTATAGAGAAAAAGAGTGGGGAATATACATCTAAGACAAA
 GACACAGACAAACCTAGTATGCTGGAGTTAAATTAATGTCAGATGTGCTATTGAAGAATAACAAGCACTG
 TTGACAAGCAGGATTGCTGCTGGTCTGGTCTGAGAAAAGAGCAAGCACCTGTGCAAGTTTCAGGAATAAA
 AAGTACAAAAGAAGACTGGTTAAATGCATCCCTACAAGGACAAAAGATGCCTGAATCAAGTCAAAGAGAT
 AGTGTGACTCAAGACTTTCTAAGAGAAGCCTCAGTGCAGATGAAATTTGAAATACTACAAAACCCAGTAA
 AAGAATCAAATATCATGTTCCGGACCTACAAAAGATGTACCTTGAGAAGAGAAGCAGAAGCCTCGGGAG
 TAGTCCAGTTAAATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001289662
Insert Size: 4566 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001289662.1, NP_001276591.1</u>
RefSeq Size:	6076 bp
RefSeq ORF:	4566 bp
Locus ID:	67246
UniProt ID:	<u>Q5DTW7</u>
Cytogenetics:	6 G3
Gene Summary:	<p>Plays a role in the regulation of imprinted gene expression, regulates repressive epigenetic modifications associated with SETDB1. Required for the recruitment or accumulation of SETDB1 to the endogenous retroviruses (ERVs) and maintenance of repressive chromatin configuration, contributing to a subset of the SETDB1-dependent ERV silencing in embryonic stem cells.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site and lacks an exon in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same protein.</p>