

## Product datasheet for MR220876

### Bicral (NM\_001100452) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bicral (NM_001100452) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bicral
Synonyms:	Gltscr1l; mKIAA0240
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR220876 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGATGACGATGACTCCTGTCTCCTCGATCTTATTGGAGACCCACAAGCATTGAACATTTTTCTGC  
ACGGACCTAGCAGTAAATCGGGCAGCGATGATGTGACGAACGCAGGGTATTCTGCAGCCAATTCTAATTC  
AATTTTCGCCAACTCCACGAACGCTGACCTAAATCGGCCCTCAAAGGTGTGAGTGACCAGCTTGGGGAG  
GGGCCAGTGATGGGCTGCCGCTTGCAAGCAGCCTTCAGTTTCTGAAGATGAACCTGAGTCTTCACCTC  
TCCCCGATCTCAGCGAGGACCAACCCCTTGACATTCCTCAGAAATCCTTGCAAGGAGGCTAATATCACTGA  
ACAGACATTGGCAGAAGAGGCGTACCTGGATGCCAGTATAGGCTCAAGCCAACAGTTCGACAAGCCAG  
CTTCATCCTTCTTCATCAGCATCCTTTACTCAGGCTTCTAATGTTTCTAATTACTCAGGTCAGACACTGC  
AGCCTATCGGGTGACTCAGTGCCTGTTGGAGCATCGTTTGAAGCAATACAGTGGGTGTGAGCATGG  
CCTTATGCAACACGTGGGGATCAGTGTCCAGCCAGCATTGCCTAACAGCAGCCAGATTAGTGGCTCC  
GGTCAGATACAGTAAATCGGGTCTTCCGTAATCAGCCTCCATGATGACTATAAATAACCTCGATGGCT  
CTCAAATCATACTGAAAGGCAGTGGGCAGCAAGCCCATCTAATGTGAGTGGGGGCTTCTGGTTCACAG  
ACAGACTCCTAACGGCAACTCTCTGTTTGGAACTCCACTTCCAGTCTGTAGCACAGCCTGTACCCGTT  
CCATTTAACAGCACAAATTTCCAGGCATCTTTACCCGTGCATAACATCATTATTCAAAGGGTCTTGAC  
CAAATTCAAATAAAGTCCCAATTAATATCCAGCCAAAGCCGGTCCAGATGGGTGAGCAGAGCGCGTACAA  
TGTGAACAACCTTGGGATCCAGCAGCACCATGCCAGCAGGGGATCTCCTTCGCCCCACAAGCTCGCCC  
CAGGGCTCCGTGGTTGGGCCGCACATGTCTGTGAACATTGTCAACCAACAGAACACGAGAAAGCCTGTCA  
CCTCGCAGGCAGTGAGCGGCACAGGGGGCAGCATCGTCATCCATCCCCATGGGCCAGCCTCACACTCC  
CCAAAGTCAGTTCCTTATACCCACAAGCCTTTCTGTGAGTCCAACCTCGGTGCACCATGTCCAGGCTATA  
AACGGGCAGCTGCTTCAGACTCAGCCCTCCAGCTCATCTCTGGCCAAGTGGCCTCTGAGCATGTATGC  
TGAACAGGAATTCCTCTAACATGCTCAGGACCAACCAACCATATCCGGACAGATGCTTAATAACCGAA  
TACCGCGTCCAGCTGGTGTCTGGGCAGACTTTTGCCACCTCTGGAAGTCCAGTGATAGTCAACCGCC  
TCTCCTCAGATCGTCGGGGACAGATGCCCTTGACAGCAGGCCCTACCCACCGTGTACACCTGTACCTG



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GGCAGAGCAGTGTTCACAGGGAAGGCCAGGCTTCGCCACCATGCCCGCGGTGAGCGGCATGGCAGGACC  
 CGCTCGGTTCCCGCCGTCAGCTCAGCTAGCACTGCTCATCTACTCTTGGGCTACGGTGCAGTCGGGG  
 GCACCGGGATCAAACCTTACGGGAGACCAGCTGACACAAGCCAACAGAACGCCAGCGCCGTCAGTGTGT  
 CCCACCGTCTCCAGTCTCTGCTTCAAATCCCCAGCACCTTGAGAACACCCCGGGGACACAGCAGCA  
 GTTCTTGTGTCAGGCTCAGAAGAAGTGTGTAACCAGACCTCCCCATCCCACATCCAAGACCACAGAC  
 GGCTTGAGGCCATCACAGATCCCTGGGCTCTTGAGCACCAGCACTGCCAGGACAGGATTCTGGAAGCAAAA  
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 ATCCTCCAGCAGTTACAGAGGGACCAAGCCATGCTGTGACACCCGACAAAAGCCAGTTCGGTCTACTAA  
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 CAGCATCGCAGAAAACAGCTCGCTCCATCAGGTGCCAGGGCCAAAGCAGAGACCGAGCCAAGCCAG  
 GCATGGCAGAAGCAACGAATCATGACCAGTTTCATCTAGTGCCTAACACATCGTGGTCTCTGCAGAGGG  
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 CGGGTCCGCTGAGGACAAGGGCGGCCGAGGGACCCTGCCAAGGTGAGCAGGTGCTCTCGGGCCCCG  
 AGGGCCACCGAAAAGCTTGCCAGGCCAGATCAGGCTCTGAGAGCAAGCTCCCCGGCGTCTGGCCAG  
 CTCGCACATGGAGATGCCCTGTCTGACTCCTTCCAGGACAAAGCGCTGAGGAATCCCCAAGAATGAG  
 GTTTTACACACAGACATCATGAAAGGTCGGGTGAGCCCCAGCCAGATCTCCAGCTACCAAGAGCCTAG  
 AGAAAACCTTTAAGAATCCTGGAACCAAGAACTCGGGCGGCCGCAAGCGACCTACGGCCAGCGG  
 TCGCGCGGACCTGACTTCCCCAGCTTTTCTCCAATGGCTTCGAGGAAAACCTGCCTAGAAAAATTCATC  
 CCGGACCACAGTGAAGGCGTTGTAGAAACGGACTCCATTTAGAACAGCTGTAATAAGTATTCTAGAGT  
 GT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220876 protein sequence  
 Red=Cloning site Green=Tags(s)

MDDDDSLCLDLIGDPQALNYFLHGPSSKSGSDDVTNAGYSAANSNSIFANSTNADPKSALKGVSDQLGE  
 GPSDGLPLASSLQFLEDELESSPLPDLSEDQPFILQKSLQEANITEQTLAEEAYLDASIGSSQQFAAQ  
 LHPSSASFTQASNVSNYSQTLQPIGVTHVPVGASFASNTVGVQHGFMQHVGISVPSQHLPNSSQISGS  
 GQIQIGSFGNQPSMMTINNLDGSQIILKGSQQAPSNVSGLLVHRQTPNGNSLFGNSTSSPVAQPVT  
 PFNSTNFQASLPVHNI IQRGLAPNSNKVPINIQPKPVQMGQSAYNVNNLGIQQHHAQQGISFAPTSSP  
 QGSVVGPHMSVNI VQNRKPVTSQAVSGTGGSI VIHSPMGQPHTPQSQFLIPTSLSVSSNSVHHVQAI  
 NGQLLQTQPSQLISGQVASEHVMLNRNSSNMLRTNQPYSGQMLNQNNTAVQLVSGQTFATSGSPVIVNHA  
 SPQIVGGQMPQLQASPTVLHLSPGQSSVSQGRPGFATMPAVSGMAGPARFPAVSSASTAHTLGPVQSG  
 APGSNFTGDQLTQANRTPAPVSVSHRLPVSAKSPSTLSNTPGTQQFFCQAQKCLNQTSP IPTSKTTD  
 GLRPSQIPGLLSTALPGQDSGSKIMPATLGATQAQPESSVSSPSQTAQVDSHPGQKRPAAKQLTKGAF  
 ILQQLQRDQAHAVTPDKSQFRSLNDTVQRLLSYHVCQGSMPTEEDLRQVDNEFEVATQLLKRTQAMLNK  
 YRFLLEDAMRINPSAEMVMIDRMFNQEERASLSRDKRLALVDPEGFQADFCCSFKLDEAVPETPLDRSD  
 QHRSKTSSLHQVPRAQSRDRAPGMAEATNHDQFHLVPNHIVVSAEGNISKKSEGHSTLKFDRGVLGQY  
 RGPPEDKGRRDPAKVSRCSPGPEGHRKSLPRPDHGSESKLPGVLASSHMEMPCDFSQDKALRNSPKNE  
 VLHTDIMKGSGEQPDQLLTKSLEKTFKNILELKNSSGRPPSDPTASGAADLDFPSFSPMASQENCKEFI  
 PDHSEGVVETDSILEAAVNSILEC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

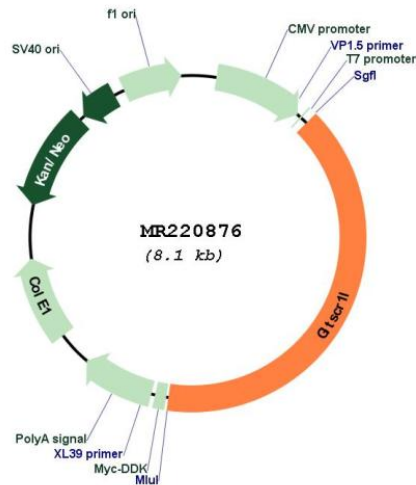
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001100452

ORF Size:

3225 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<u>NM_001100452.1, NP_001093922.1</u>
<b>RefSeq Size:</b>	6579 bp
<b>RefSeq ORF:</b>	3225 bp
<b>Locus ID:</b>	210982
<b>UniProt ID:</b>	<u>Q8CHH5</u>
<b>Cytogenetics:</b>	17 C
<b>MW:</b>	114.4 kDa
<b>Gene Summary:</b>	Component of SWI/SNF chromatin remodeling subcomplex GBAF that carries out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner.[UniProtKB/Swiss-Prot Function]