

## Product datasheet for MR206309

### Ss1811 (NM\_178750) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ss1811 (NM_178750) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ss1811
Synonyms:	A230053O16Rik; CREST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206309 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCCGTGGCCTTCGCGTCGGCGCGGCCGAGAGGCAAAGGGGAGGTCACTCAGCAGACCATCCAGAAGA  
TGCTGGATGAGAACCACCACCTGATCCAGTGCATCCTGGACTACCAGAGCAAGGGCAAGCCGCCGAGTG  
CACGCAGTACCAGCAGATCCTGCACCGGAACCTGGTCTACCTAGCCACCATAGCAGACTCCAATCAGAAC  
ATGCAGTCCCTGCTTCCCGCGCCTCCAACACAGAACATGAACCTCGGGCCCGGAGCACTGAGTCAGAGTG  
GTTCCAGCCAGGGCCTGCACCCCAAGGACGCTCAGCGATACCGTCAGCACAGGCTGCCCGCCGCTC  
CCTCATGCAGGGCCAGATCGGTAACGGTCAAACACAGTGTCCATGCAGCAGACGGCTCAGAGCACACTG  
CCCACAACCTCCATGAGCTTGTGAGGAGTGGCCATGGTACTGGCCCTGGGTACAGCCACTCGGGGCCA  
CCTCGCAGAGTGTCCCATGCAAGGCCAAGGTGCCATCAGCAACTATGTGTCTCGGACCAACATCAACAT  
GCAGTCTAACCCAGTCTCCATGATGCACCAGCAGGCAGCCACGTCCCCTACAACCTCAGCACAGGGTGGA  
AGCCAGCATTACCAGGGCCAGGCACCCATTGCCATGATGGCCAGGGTGGCAAGGAGGCAGCATGATGG  
GGCAGCGGCCATGGCGCCCTACAGACCCCTCCAGCAAGGCTCTCCAGCAGTACCTGGGCCAAGAGGA  
GTACTACAGCGAACAGTACAGCCACAGCCAGGGCTCCGAGAGCCATGAGTCAACAGTACTACCCGGAT  
GGCCACGGTGACTACGCCTATCAGCAGTGTCTTACACAGAGCAGAGCTACGACCGCTCCTTTGAGGATC  
CCACACAGCACTACTACGAGGGGGAAACTCCAGTACAGTACAGCAGCAGGCTGGGTACCAGAGGGCAC  
AGCACAGCAGCAGACCTACTCCAGCAACAGTATCCCAACCAGCAGAGCTACCCGGGCGCAGCAGAGGGC  
TATGGTCTGCCAGGGAGCCCCCTCACAGTACTCAAGCTACCAGCAAGGACAAGGTGAGCAGTATGGAA  
GCTACAGAACATCGCAGACGGGACCTTCTGCCAGCAGCAGCGCCCTTACGGCTATGAACAGGGCCAGTA  
TGGAAATTACCAGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206309 protein sequence  
 Red=Cloning site Green=Tags(s)

MSVAFASARPRGKGEVTQQTIIQKMLDENHHLIQCILDYQSKGKTAECTQYQQILHRNLVYLATIADSNQN  
 MQSLLPAPPTQNMNLGPGALSQSGSSQGLHPQGSLSDTVSTGLPPASLMQGQIGNGPNHVSMQQTAAQSTL  
 PTTSMSSLSGSGHGTGPGYSHSGPTSQSVPMQGGGAI SNYVSR TNINMQSNPVSMHMQQAATSHYNSAQQG  
 SQHYQGQAPIAMMGQGGQGGSMGQRPMAPYRPSQQGSSQQYLQEEYYSQYSHSQGSAEPMSQQYYPP  
 GHGDYAYQQSSYTEQSYDRSFEDPTQHYYEGGNSQYSQQAGYQQGTAQQQYTSQQQYYPNQSSYPGQQQ  
 YGPAQGAPSQYSSYQQGQGGYGSYRTSQTGPSAQQQRPYGYEQGQYGNYYQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_178750

**ORF Size:** 1209 bp

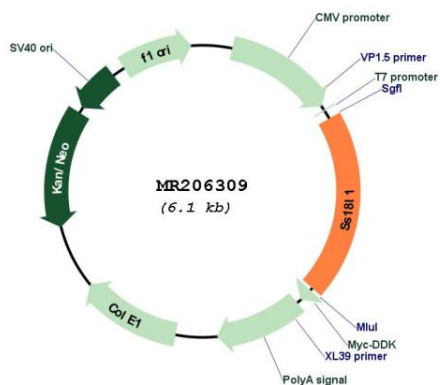
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

**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).

<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>	<a href="#">NM_178750.1</a> , <a href="#">NM_178750.2</a> , <a href="#">NM_178750.3</a> , <a href="#">NM_178750.4</a> , <a href="#">NM_178750.5</a> , <a href="#">NP_848865.3</a>
<b>RefSeq Size:</b>	4395 bp
<b>RefSeq ORF:</b>	1209 bp
<b>Locus ID:</b>	269397
<b>UniProt ID:</b>	<a href="#">Q8BW22</a>
<b>Cytogenetics:</b>	2 H4
<b>MW:</b>	43.7 kDa
<b>Gene Summary:</b>	<p>Transcriptional activator which is required for calcium-dependent dendritic growth and branching in cortical neurons. Recruits CREB-binding protein (CREBBP) to nuclear bodies. Component of the CREST-BRG1 complex, a multiprotein complex that regulates promoter activation by orchestrating a calcium-dependent release of a repressor complex and a recruitment of an activator complex. In resting neurons, transcription of the c-FOS promoter is inhibited by BRG1-dependent recruitment of a phospho-RB1-HDAC1 repressor complex. Upon calcium influx, RB1 is dephosphorylated by calcineurin, which leads to release of the repressor complex. At the same time, there is increased recruitment of CREBBP to the promoter by a CREST-dependent mechanism, which leads to transcriptional activation. The CREST-BRG1 complex also binds to the NR2B promoter, and activity-dependent induction of NR2B expression involves a release of HDAC1 and recruitment of CREBBP.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR206309