

## Product datasheet for **MR230995**

### Zfp219 (NM\_001253695) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp219 (NM_001253695) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zfp219
Synonyms:	2010302A17Rik; Znf219
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR230995 representing NM\_001253695  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGGGCTCAGTCCCCGCATCTGGTCCGCCACCTAGAGCCTCCCCACCAGCCTTCGACGGCGAGC  
TGGATCTGCAGCGCTACTCCAACGGACCAGGTGTCAAGTGGGACTCCAGGACCCGGCTCGCTGGGATGGG  
AGCAGTGGGTTGGTCTGAGACTCGTGCAGGCGAACGGCGCTTCCCTTGTCTGTGTGCGGAAAGCGCTTC  
CGATTCAATTCATCTTGGCTTTGCACCTGAGAGCCACCCGGGCGCCCAAGCCTTCCAGTGCCACATT  
GCGGCCACCGCGCAGCGCAGCGGGCTCTGCTGCGCTCACACCTCCGAACGCACCAGCCGGAGCGTCCACG  
CAGCCCTGCTGCACGGCTGTTGCTGGAGTTGGAGGAACCGCCCTGCTTCGCGAAGCCCGACTCGGGAGA  
GCCAGAAGCTCAGGCGGCATGCAGTCCAGCCCTGCCGAGAGGGCCTGGCTCGCCCTCAGTCCCTTCT  
CATCTGCCTTCCGTTGCCCTTTCTGCAAAGGCAAGTTTCGCACCTCAGCGGAGCGGGAACCCACCTGCA  
TATCTGCACAGGCCCTGGAAGTGCAGCTTGTGCAGTTTTGGCTCCAGCCAGGAGGAGGAGTTGCTGCAC  
CACAGTCTGACGGCCACGGGGCTTCCGAGCGCCCTGGCGGCTACATCTACGCCCTGAACCCCGCCTC  
CACCCAGCAAGAACCAGATCTGCCCTTGAGCCTGAGCCTGAGCCTGAACCTAGGCCAGAGCCTGACCG  
GGAGGCAAACCCTGCCCAACTCCTGCACCTCCGGAGGAGCCCTGCGCCACCTGAATTCGTTGCCAG  
GTGTGCGGCCAGAGCTTACACAGTCTGGTTTCTCAAGGGTACATGCGCAAGCACAAGGCCTCCTTTG  
ATCATGCGTGCCCGTATGTGGTGCCTGCTCAAGGAGCCTGGTTCTTAAGAACCACATGAAGGTGCA  
CACCAGCAAGTGGGTCCTTTCGCTGCTCCAGGCCCTGGCTCTGCACCTGCCAGGGCCCTCAGCCTCCC  
GACCTGAGCCTACTGGCATAATGAGCCACTGGGCCCTGCACTCCTCTGGCCCCAGCACCCGCTCCGGTG  
AGGCGGAGAGCCCCAAGCCTTTAGGCTACCTGAGTGTACGAGCTGGGGAAGTACGACCAATGGTGA  
GGGTGCTGACCCTGGAGGTGGCCGAAGCTATGGAGGGTTCCGCCACTGCCTTCAGCTTTCCTCAACCGG  
GCTCGGGACACCGTACAGAGGAACCAGAAGAGGAAGAAGTGGTGGAGGCTGAAGAGGAGAGCTGGG  
CCCGAGGCAGGTCGCTGGGCTCTCTGACTTCCCTGCACCCCAACCCAGGTGAGGGGTGAGGACAGCCTGC  
ACCTGCCGCGGGGACCCAGGCGAGATCCACGGCCACCCAAGAAGAAAACGGGCTGCTGGTTGGAGGGACA  
CGATCTGAAGCGGGCCGTGGGGCCACTGGCAAGGACTGCCCTTCTGTGGAAAATCTTCCGCTCGGCGC  
ATCACTTAAAAGTGCATCTCCGTGTGCACACAGGTGAGCGTCCCTACAAGTGTCCACACTGCGACTATGC  
AGGTACCCAGTCGGGCTCGCTCAAGTATCACCTTCAGCGTCACCACCGAGAGCAGAGGAGCAGTGGGGT  
CCTGGGCTCCCCAGAACCCCGCCACCTTCCAGCGGGGCTCACTGCAGCCGAGTCAGGAGCCAAGC  
CAACTCAGGCCTCAGCCACTGGGTAGAGGGCACTGCAAGTACCCGGCCTCCTTCGAGCAGCACCGGACC  
AGGGTCCCGTAGGAAGCCTGCTAGCCCTGGGAGGACCCTGCGAAAACGGGCGAGGTGGTGAAGCCGAACCC  
CTGGACCTGTCCCTACGGGCGGGCCCGGGAGGTGAGGCCGGGGCAGGGGGTGCCCTTACCAGCTGCCTCT  
TCTGCCCTTTGGCACTGGAGCTCCTGAGCTCATGGCCTTGCACTGCAAGTACACCATAGCCGTCGTGC  
TCGGGGCCCGGGCAGCCCCGAGCCGACACGTCTCAACCTATGTCCGGGCACCATCAGGAGAGACCCCT  
CCCAGTCTCCACTAGAAGAGGAGGGCAGCCCAGGGCTGTCTAGATCCGGAGAGGCAGGTCTTGGGGGGC  
AAGAACGG

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230995 representing NM\_001253695  
 Red=Cloning site Green=Tags(s)

MEGSRPRILVGHLEPSPPAFDGELDLQRYSNPGVSGTPGPGSPGMGAVGWSETRAGERFRPCPVCGRFR  
 RFNSILALHLRAHPGAQAFQCPHCGHRAAQRALLRSHLRTHQPERPRSPAARLLLEERALLREARLGR  
 ARSSGGMQSSPAAEGLARPQVPSAFAFCFKGKFRSAERERHLHILHRPWKCSLCSFGSSQEEELLH  
 HSLTAHGASERLAATSTPEPPPPPPQEPRESALEPEPEPEPRPEPDREANPAPTAPPEEPPAPPEFRCQ  
 VCGQSFTQSWFLKGHMRKHKASFHDACPVCGRCFKEPWFLLKNHMKVHTSKLGPLRAPGPGSAPARAPQP  
 DLSSLAYEPLGPALLLAPAPAPAERREPPSLLGYLSVRAGEVVRPNGEADPGGGRSYGGFRPLPSALPNR  
 ARRHRTTEPEEEEEVVEAEESWARGRSLGSLTSLHPNPGEGSQPAPAAGTQARSTATQEENGLLVGGT  
 RSEAGRATGKDCPFCGKSFRSAHHLKVLHRVHTGERPYKCPHCDYAGTQSGSLKYHLQRHHREQRSSAG  
 PGPPPEPPPPSQRGLQPQSGAKPTQASATWVEGTASTRPPSSSTGPGSRRKPASPGRTLNRNGRGEAEP  
 LDLSLRAGPGGEAGAGGALHRCLFCPFATGAPELMALHLQVHHSRRARGRRQPRADTSPTYVRAPSGETP  
 PSPPLEEEGSPGLSRSGEAGLGGQER

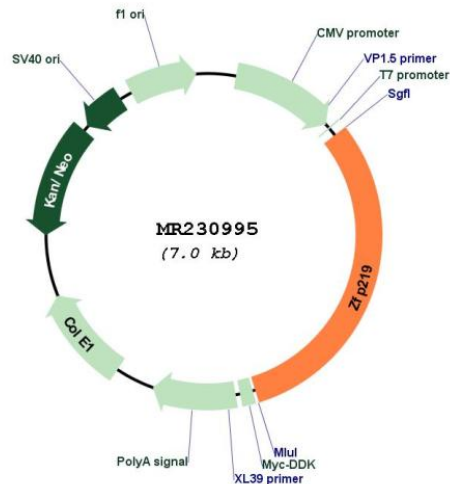
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001253695

**ORF Size:** 2178 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).

**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:** [NM\\_001253695.1](#), [NP\\_001240624.1](#)

**RefSeq Size:** 2782 bp

**RefSeq ORF:** 2181 bp

**Locus ID:** 69890

UniProt ID: [Q6IQX8](#)

Cytogenetics: 14 C2

MW: 78.2 kDa

**Gene Summary:** Transcriptional regulator (PubMed:20940257). Recognizes and binds 2 copies of the core DNA sequence motif 5'-GGGGG-3' (PubMed:20940257). Binds to the HMGN1 promoter and may repress HMGN1 expression (By similarity). Regulates SNCA expression in primary cortical neurons (By similarity). Binds to the COL2A1 promoter and activates COL2A1 expression, as part of a complex with SOX9 (PubMed:20940257). Plays a role in chondrocyte differentiation (PubMed:20940257).[UniProtKB/Swiss-Prot Function]