

## Product datasheet for **MC216653**

### Zfp207 (NM\_001130170) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp207 (NM_001130170) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zfp207
Synonyms:	8430401D15Rik; BuGZ; Zep; Znf207
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216653 representing NM\_001130170  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGTCGCAAGAAGAAGAAGCAGCTCAAGCCGTGGTCTGGTATTGTAACAGAGATTTTGTATGATGAGA  
AGATCCTTATACAGCACCAAAAAGCAAAGCATTAAATGCCATATTTGTCATAAGAAATTATACACAGG  
ACCTGGTTTAGCAATTCATTGCATGCAGGTCCATAAAGAAACCATAGATGCAGTACCAAATGCAATACCT  
GGGAGAACAGACATAGAGTTGGAATATATGGCATGGAAGGTATTCAGAGAAAGATATGGATGAAAGAC  
GGCGACTTCTTGAACAGAAAACACAAGAGAGTCAGAAAAAGAAACAACAAGATGATTCTGATGAATATGA  
TGATGATGAATCTGCAGCCTCACTTCCTTTAGCCACAGCCTGTTCAACCTCAGCAAGTTATATCCCA  
CCAATGGCTCAGCCAGGACTGCCTCCAGTTCAGGGCCACCAGGAATGCCTCCAGGCATACCTCCATTGA  
TGCCAGGTGTTCCCTCCCCTGATGCCAGGCATGCCTCCAGTGCAGGAATGCCGCTGGAATGATGCC  
AATGGGTGGAATGATGCCACCTGGACCTGGAATACCACCTCTGATGCCAGGTATGCCACCAGGTATGCC  
CCACCTGTTCCAGTCCCTGGAATTCCTCCAATGACTCAAGCACAGGCTGTTTCAGCACCAGGTATTTCTTA  
ATAGACCACCTGCACCAACAGCAGCAGTACCTGCTCCACAGCCTCCAGTACTAAGCCTCTTTTCCCCAG  
TGCTGGACAGATGGGGACACCTGTAACAAGCTCAAGTACAGCTTCATCCAATTCAGAAAGCTGTCTGCA  
TCTTCTAAAGCTCTGTTTCTAGCACAGCACAAGCTCAGGCAGCTGTCCAAGGACCTGTTGGTACAGATT  
TTAAGCCCTTAAATAGTACTCCTGCAGCAACAACACAGAACCCCAAGCCTACATTCCTGCTTATAC  
ACAGTCTACAGCGTCAACCACTAGTACAACAACAGTACTGCAGCAAAGCCAGCAGCTTCAATAACAAGT  
AAGCCTGCTACTCACAACCACCAGTGAACCAAGTAAAGTTGATCCATCCAGATGAGGATATATCACTGG  
AAGAAAGAAGGGCACAGTTACCTAAATATCAGAGAAATCTTCTCGACCAGGACAACTCAATTGGTAA  
TCCACCAGTTGGACCAATTGGGGGTATGATGCCACCACAGCCAGGCTGCCACAGCAGCAGGCAATGCCA  
CCTCCAATGCCACCTCATGGTCAGTATGGTGGTATCATCAAGGCATGCCAGGTTATCTTCTGGCGCTA  
TGCCACCCTGATGGACAGGGACCACCAATGGTGCCTTACCAAGGTGGGCTCCTCGACCTCCAATGG  
AATGAGACCTCCTGTAATGTCGCAAGGTGGCCGTACTGA

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001130170

**Insert Size:** 1440 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:**

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\\_001130170.1](#), [NP\\_001123642.1](#)

RefSeq Size: 2328 bp

RefSeq ORF: 1440 bp

Locus ID: 22680

UniProt ID: [Q9JMD0](#)

Cytogenetics: 11 B5

**Gene Summary:** Kinetochore- and microtubule-binding protein that plays a key role in spindle assembly. ZNF207/BuGZ is mainly composed of disordered low-complexity regions and undergoes phase transition or coacervation to form temperature-dependent liquid droplets. Coacervation promotes microtubule bundling and concentrates tubulin, promoting microtubule polymerization and assembly of spindle and spindle matrix by concentrating its building blocks (PubMed:26388440). Also acts as a regulator of mitotic chromosome alignment by mediating the stability and kinetochore loading of BUB3. Mechanisms by which BUB3 is protected are unclear: according to a first report, ZNF207/BuGZ may act by blocking ubiquitination and proteasomal degradation of BUB3. According to another report, the stabilization is independent of the proteasome (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the mid coding region, compared to variant 1. The resulting isoform (2) is shorter than isoform 1.