

Product datasheet for **RC201811**

ZNF207 (NM_001032293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF207 (NM_001032293) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF207
Synonyms:	BuGZ; hBuGZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC201811 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTCGAAGAAGAAGAAGCAGCTGAAGCCGTGGTCTGGTATTGTAATAGAGATTTTGTATGATGAGA
 AGATCCTTATTACAGCACAAAAAGCAAAGCATTTTAAATGCCATATATGTCACAAGAAATTTGATACAGG
 ACCTGGCTTAGCTATTCATTGCATGCAGGTACATAAAGAAACAATAGATGCCGTACCAAATGCAATACCT
 GGAAGAACAGACATAGAGTTGGAATATATGGTATGGAAGGTATCCAGAAAAAGACATGGATGAAAGAC
 GACGACTTCTTGAACAGAAAACACAAGAAAGTCAAAAAAGAAGCAACAAGATGATTCTGATGAATATGA
 TGATGACGACTCTGCAGCCTCAACTTCATTTAGCCACAGCCTGTTCAACCTCAGCAAGTTATATTCCT
 CCAATGGCACAGCCAGGACTGCCACCAGTACCAGGAGCACCAGGAATGCCTCCAGGCATACCTCCATTAA
 TGCCAGGTGTTCTCTCTGATGCCAGGAATGCCACCAGTTATGCCAGGCATGCCACCTGGATTGCATCA
 TCAGAGAAAATACACCCAGTCATTTTGGCGTGAACATATATGATGCCAATGGGTGGAATGATGCCACCT
 GGACCAGGAATACCACCTCTGATGCCTGGAATGCCACCAGGTATGCCCCACCTGTTCCAGCTCCTGGAA
 TTCTTCAATGACTCAAGCACAGGCTGTTTCAGCGCCAGGTATTTAATAGACCACCTGCACCAACAGC
 AACTGTACCTGCCCCACAGCCTCCAGTTACTAAGCCTCTTTTCCCAGTCTGGACAGGCTCAGGCAGCT
 GTCCAAGGACCTGTTGGTACAGATTTCAAACCTTAAATAGTACCCTGCAACAACCTACAGAACCCCAA
 AGCCTACATTCCTGCTTATACACAGTCTACAGCTTCAACAACCTAGTACAACAAATAGTACTGCAGCTAA
 ACCAGCGGCTTCAATAACAAGTAAGCCTGCTACACTTACAACAACCTAGTGAACCAAGTAAAGTTGATCCAT
 CCAGATGAGGATATATCCCTGGAAGAGAGAAGGGCACAGTTACCTAAGTATCAACGTAATCTTCTCGGC
 CAGGACAGGCCCCCATCGGTAATCCACCAGTTGGACCAATTGGAGGTATGATGCCACCACAGCCAGGCAT
 CCCACAGCAACAAGGAATGAGACCCCAATGCCACCTCATGGTCAGTATGGTGGTATCATCAAGGCATG
 CCAGGATACCTTCTGGTCTATGCCCCGATGGGCAGGACCAGCAATGGTGGCCCTTACCAGGGT
 GGCTCTCGACCTCCGATGGGAATGAGACCTCTGTAATGTCGCAAGGTGGCCGTTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201811 protein sequence
 Red=Cloning site Green=Tags(s)

MGRKKKKQLKPCWYCNRDFDDEKILIQHQKAKHFKCHICHKLYTGPGLAIHCMQVHKETIDAVPNAIP
 GRTDIELEIYGMETIPEKDMERRRLLQKTQESQKKKQDDSDYDDDDSAASTSFQPQPVQPQGYIP
 PMAQPLPPVPGAPGMPPGIPPLMPGVPLMPGMPPVMPGMPPGLHHQRKYTQSFGENIMMPMGMMPP
 GPGIPPLMPGMPPGMPVPRGIPPMTQAQAVSAPGILNRPPAPTATVPAPQPPVTKPLFPSAGQAQAA
 VQGPVGTDFKPLNSTPATTTTEPKPTFPAYTQSTASTTSTNSTAAKPAASITSKPATLTTTSATSKLIH
 PDEDISLEERRAQLPKYQRNLPRPGQAPIGNPPVGPVIGMMPPQPGIPQQGMRPPMPHGGYGGHHQGM
 PGYLPGAMPPYQGGPPMPPYQGGPPRPPMGRPPVMSQGGRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6728_b04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001032293

ORF Size: 1389 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_001032293.2](#), [NP_001027464.1](#)

RefSeq Size: 2240 bp

RefSeq ORF: 1392 bp

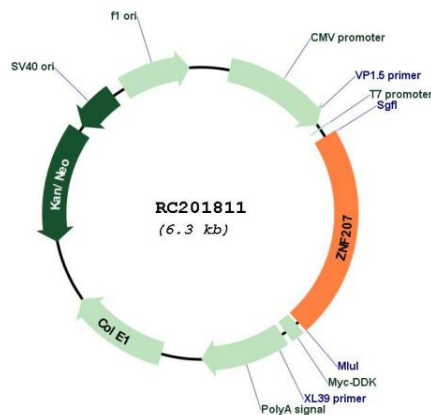
Locus ID: 7756

UniProt ID: [O43670](#)

Cytogenetics: 17q11.2

Protein Families:	Transcription Factors
MW:	49.7 kDa
Gene Summary:	<p>Kinetochores- and microtubule-binding protein that plays a key role in spindle assembly (PubMed:24462186, PubMed:24462187, PubMed:26388440). 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 (PubMed:24462186, PubMed:24462187). 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 (PubMed:24462186). According to another report, the stabilization is independent of the proteasome (PubMed:24462187).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RC201811