

## Product datasheet for **SC209064**

### ZNF207 (NM\_001098507) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	ZNF207 (NM_001098507) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ZNF207
Synonyms:	BuGZ; hBuGZ
ACCN:	NM_001098507
Insert Size:	2000 bp



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**Insert Sequence:** >SC209064 3'UTR clone of NM\_001098507  
 The sequence shown below is from the reference sequence of NM\_001098507. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCTGTAATGTCGCAAGGTGGCCGTACTGATCTTACTTCATCCAGTCTAATAGGTTTGGAGATTAACC
TTTTCTCAACTTGTGCTGTTTATATAGCCAAGCTTCCGTCATAAAGGCTTCATTGTGACTTTAACAAAC
ATTATCTTCCCACATACCAGGAATATTGGACATTTATTTTACATGGGAAAAATTATTTGGAATAATAA
AGCAGGAACTTTTCTGAAGTTGCAATTTACTGTATGGCTTCTTTTCATGTTTCATCTAGGTTTTT
AGAAGTGAAGTATAGTAAATTTGGTTCGTTAAATTTGTGAAGGCGCTGGAATTACATGAACATACCACCC
TAGTAAAGGCAAGTTCTGTAAGCTTACATTGCTATTTGTAAGTTTGCCTTCACAGCATTTCAGATGCT
GTTGGACTTCATGTCCCAACCTAGCTTGGTGAGGGCTGTAAGTGTTCAGTACTTGTACATTGGAA
GTCTGAATGTGTAACAATATTTAATGTATTTAGAGTTCCTCATGTTGCAGGGTTTAAAGAAATCTGACCC
ACCAAGGTCATGTGACTTTTCTGTACTGTTAAACTTCATTGTAATAAAATGAGAGAAAAATTTATGCCT
TTTTATTACATAACCCAGCTGTGGACCCTGCCTGAAAGGTTTGTACAGATGCATGCCACAGTAGATGTC
CACATAATAAAATTCATAGTTACCAATGCAGTTTTGATATATCATTGGATTCTGTCTTTGAGTTGTAGG
TTATTTCTTAGCTGCATGTTTTAAACTGAATTTGCATAGAGTTGTATGTTAATGTTTCAGTTAAGAGAA
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GTGTCAGTACACATCACGTGTCATAGATACTTAAATGTAATGTTAACACTTTTCTTCTGCTGAGA
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CTCAGAAGCTTTTCAGGTGCAAACCTCTAGAAGCTTAGGTGCATGCAGTAAATAGCTTCTTGTGCTGTTA
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TGACCTTTTTGGGATCTGTTTTTCTGATCTTTGTCAGGGTAGTTTTATGATTTTTTAGGCATCAAATAA
CCTATGCAAAGTATTAATATAATGAACTCAAGTTGAGTTTTTCTCATTATAAAGTTAAGACTTCTAAGA
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TTAACTCACATTGGCTGGGTGCAGTGGCTCACGCCTGTAATCCCAGCCCTCTGGAAGGCTGAGATGGGA
GGATTGCTTGAGTCCAGGAGTTTGGACAGCCTGGCCAACATGGCAAAACCCCATCTGTACAAAACAT
TTAAAAATTAGCCAGGCGGTTAGTGTGTGCTGTGGTCCCAGCTGCTCAAGAGGCTGAGGAAGGAGGT
TCTTCTCCTTCCGAGGCTGCGGTGAGCTATGTTCACTCCAGCCTGGGCAACAGAGCGGAGACTCTGTC
ACGCGT AAGCGGCCGCGGCATCTAGATTCAAGAAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_001098507.2](#)

**Summary:**

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]

**Locus ID:**

7756

**MW:**

77.6