

Product datasheet for **SC209065**

ZNF207 (NM_001032293) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ZNF207 (NM_001032293) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ZNF207
Synonyms:	BuGZ; hBuGZ
ACCN:	NM_001032293
Insert Size:	2000 bp



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Insert Sequence: >SC209065 3'UTR clone of NM_001032293
 The sequence shown below is from the reference sequence of NM_001032293. 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
AGCAGGAATTTTCTGAAGTTGCAATTTACTGTATGGCTTCTTTTCATGTTTCATCTAGGTTTTT
AGAAGTGAAGTATAGTAAATTTGGTTCGTTAAATTGTGAAGGCGCTGGAATTACATGAACATACCACCC
TAGTAAAGGCAAGTTCTGTAAGCTTACATTGCTATTTGTAAGTTTGCCTTCACAGCATTTCAGATGCT
GTTGGACTTCATGTCCCAACCTAGCTTGGTGAGGGCTGTAAGTGTTCAGTACTTGTACATTGGAA
GTCTGAATGTGTAACAATATTTAATGTATTTAGAGTTCCTCATGTTGCAGGGTTTAAAGAAATCTGACCC
ACCAAGGTCATGTGACTTTTCTGTACTGTTAAACTTCATTGTAATAAAATGAGAGAAAAATTTATGCCT
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CACATAATAAAATTCATAGTTACCAATGCAGTTTTGATATATCATTGGATTCTGTCTTTGAGTTGTAGG
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CCTATGCAAAGTATTAATATAATGAACTCAAGTTGAGTTTTTCTCATTATAAAGTTAAGACTTCTAAGA
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TTAAAAATTAGCCAGGCGGTTAGTGTGTGCTGTGGTCCCAGCTGCTCAAGAGGCTGAGGAAGGAGGT
TCTTCTCCTTCCGAGGCTGCGGTGAGCTATGTTCACTCCAGCCTGGGCAACAGAGCGAGACTCTGTC
ACGCGT AAGCGGCCGCGGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
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_001032293.3](#)

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