

Product datasheet for **SC126037**

ZNF207 (BC008023) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF207 (BC008023) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZNF207
Synonyms:	DKFZp761N202; OTTHUMP00000163700; zinc finger protein 207
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene sequence for BC008023 edited
 GCTTCCTGTGGGACGTGGTGGTAGCCGTTGGGTTGGGAAAGTGAGGGATTTTTGGCCTCG
 TTTCTCCTGCTTCTTTCTCCTCCCTTTACTTTGCCGGTAGAACACAGTTATGGGTCGC
 AAGAAGAAGAAGCAGCTGAAGCCGTGGTCTGGTATTGTAATAGAGATTTTGATGATGAG
 AAGATCCTTATTCAGCACCAAAAAGCAAAGCATTTAAATGCCATATATGTCACAAGAAA
 TTGTATACAGGACTGCCACCAGTACCAGGAGCACCAGGAATGCCACCAGTTATGCCAGGCATGCCA
 TTAATGCCAGGTTCCTCCTCTGATGCCAGGAATGCCACCAGTTATGCCAGGCATGCCA
 CCTGGATTGCATCATCAGAGAAAATACACCCAGTCATTTTGGCGTGAAAACATAATGATG
 CCAATGGGTGGAATGATGCCACCTGGACCAGGAATACCACCTCTGATGCCTGGAATGCCA
 CCAGGTATGCCCCACCTGTTCCACGTCCTGGAATTCCTCCAATGACTCAAGCACAGGCT
 GTTTCAGCGCCAGGTATTCTTAATAGACCACCTGCACCAACAGCAACTGTACCTGCCCCA
 CAGCCTCCAGTTACTAAGCCTCTTTTCCCAGTCTGGACAGATGGGGACACCTGTCACA
 AGCTCAAGTACAGCTTCATCCAATTCAGAAAGTCTGTCTGCATCTCTAAAGCTCTGTTT
 CCTAGCACAGCACAAGCTCAGGCAGCTGTCCAAGGACCTGTTGGTACAGATTTCAAACCC
 TTAATAGTACCCCTGCAACAACACTACAGAACCCCAAAGCCTACATTCCTGCTTATACA
 CAGTCTACAGCTTCAACAACACTAGTACAACAATAGTACTGCAGCTAAACCAGCGCTTCA
 ATAACAAGTAAGCCTGCTACACTTACAACAACACTAGTGCAACCAAGTAAAGTTGATCCATCCA
 GATGAGGATATATCCCTGGAAGAGAGAAGGGCACAGTTACCTAAGTATCAACGTAATCTT
 CCTCGGCCAGGACAGGCCCCATCGGTAATCCACCAGTTGGACCAATGGAGGTATGATG
 CCACCACAGCCAGGCATCCCACAGCAACAAGGAATGAGACCCCAATGCCACCTCATGGT
 CAGTATGGTGGTCATCATCAAGGCATGCCAGGATACCTTCTGGTGTCTATGCCCCGTAT
 GGGCAGGGACCGCAATGGTGGCCCTTACCAGGGTGGCCTCCTCGACCTCCGATGGGA
 ATGAGACCTCCTGTAATGTCGAAGGTGGCCGTTACTGATCTTACTTCATCCAGTCTAAT
 AGGTTTGGAGATTAAACCTTTTCTCAACTTGTGCTGTTTATATAGCCAAGCTTCGGTCAA
 TAAGGCTTCATTGTGACTTTAAACAACATTATCTTCCCACATACCAGGAACCTATTGGACA
 TTTATTTTACATGGGAAAAATTATTTGGAATAATAAAGCAGGAACCTTTTCTGAAGTTGC
 AATTTTACTGTATGGCTTCTTTTTCATGTTTCATCTAGGTTTTTAGAAGTGAAGTATAG
 TAAATTTGGTTCGTTAAATTGTGAAGGCGCTGGAATTACATGAACATACCACCCTAGTAA
 AGGCAAGTTCTGTAAGCTTACATTGCTATTTGTAAGTTTGCCTTCACAGCATTTTCAGAT
 GCTGTTGGACTTCATGTCCCAACCTAGCTTGGTGGGGCTGTAAGTCTTCCAAGTACT
 TGTACATTGGAAGTCTGAATGTGAACAATATTTAATGTATTTAGAGTTCCTCATGTTGC
 AGGGTTTAAAGAAATCTGACCCACCAAGGTCATGTGACTTTTCTGACTGTAAACCTCAT
 TGTAAATAAATGAGAGAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC008023 unedited
 NCCCCGTTCAAGATTTTGTNAATACGNATNCACNATAGGGNCGGACCGNAATTCGGCA
 CGAGGGCTTCTGTGGGACGTGGTGGTAGCCGTTGGGTTGGGAAAGTGAGGGATTTTTGG
 CCTCGTTTCTCCTGCTTCTTTCTCCTCCCTTTACTTTGCCGGTAGAACACAGTTATGG
 GTGCGAAGAAGAAGAAGCAGCTGAAGCCGTGGTCTGGTATTGTAATAGAGATTTTGATG
 ATGAGAAGATCCTTATTCAGCACCAAAAAGCAAAGCATTTAAATGCCATATATGTCACA
 AGAAATTTGATACAGGACTGCCACCAGTACCAGGAGCACCAGGAATGCCACCAGGCATAC
 CTCCATTAATGCCAGGTGTTCTCCTCTGATGCCAGGAATGCCACCAGTTATGCCAGGCA
 TGCCACCTGGATTGCATCATCAGAGAAAATACACCCAGTCATTTTGGCGTGAAAACATAA
 TGATGCCAATGGGTGGAATGATGCCACCTGGACCAGGAATACCACCTCTGATGCCTGGAA
 TGCCACCAGGTATGCCCCACCTGTTCCACGTCCTGGAATTCCTCCAATGACTCAAGCAC
 AGGCTGTTTCAGCGCCAGGTATTCTTAATAGACCACCTGCACCAACAGCAACTGTACCTG
 CCCCACAGCTCCAGTTACTAAGCCTCTTTTCCCAGTCTGGACAGATGGGGACACCTG
 TCACAAGCTCAAGTACAGCTTCATCCAATTCAGAAAGTCTGTCTGCATCTCTAAAGCTC
 TGTTTCTAGCACAGCACAAGCTCAGGCAGCTGTCCAAGGACCTGTTGGTACAGATTTCA
 AAACCCTAAATAGTACCCCTGGCACAACACTACAGAAACCCAAAGGCTACATTCCTGGCTA
 TACACAGTCTACAGCTTCAAA

Restriction Sites:	Please inquire
ACCN:	BC008023
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:	<ol style="list-style-type: none">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:	BC008023.1 , AAH08023.1
RefSeq Size:	1897 bp
Locus ID:	7756
Cytogenetics:	17q11.2
Protein Families:	Transcription Factors
Gene 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]