

Product datasheet for **SC125768**

ZNF207 (BC002372) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF207 (BC002372) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZNF207
Synonyms:	DKFZp761N202; OTTHUMP00000163700; zinc finger protein 207
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC002372 edited
CGGAGCGGGGAACGAGGCCGTCGGCCATTTTGTGTCTGCTTCTGTGGGACGTGGTGGTA
GCCGTTGGGTTGGGAAAGTGAGGGATTTTTGGCCTCGTTTCTCCTGCTTCTTTCTCCTC
CCTTTTACTTTGCCGGTAGAACACAGTTATGGGTGCGAAGAAGAAGAAGCAGCTGAAGCC
GTGGTGTGGTATTGTAATAGAGATTTTGTATGATGAGAAGATCCTTATTCAGCACAAAA
AGCAAAGCATTTTAAATGCCATATATGTCACAAGAAATGTATACAGGACCTGGCTTAGC
TATTCATTGCATGCAGGTACATAAAGAAACAATAGATGCCGTACCAAATGCAATACCTGG
AAGAACAGACATAGAGTTGGAAATATATGGTATGGAAGGTATTCCAGAAAAAGACATGGA
TGAAAGACGACGACTTCTTGAACAGAAAAACAAGAAAGTCAAAAAAAGAACAAAGA
TGATTCTGATGAATATGATGATGACGACTCTGCAGCCTCAACTTCATTTTCAGCCACAGCC
TGTTCAACCTCAGCAAGGTTATATTCCTCCAATGGCACAGCCAGGACTGCCACCAGTACC
AGGAGCACCAGGAATGCCTCCAGGCATACCTCCATTAATGCCAGGTGTTCTCCTCTGAT
GCCAGGAATGCCACCAGTTATGCCAGGCATGCCACCTGGATTGCATCATCAGAGAAAATA
CACCCAGTCATTTTGGGTTGAAAACATAATGATGCCAATGGGTGGAATGATGCCACCTGG
ACCAGGAATACCACCTCTGATGCCTGGAATGCCACCAGGTATGCCCCACCTGTTCCACG
TCCTGGAATTCCTCCAATGACTCAAGCACAGGCTGTTTCAGCGCCAGGTATTCCTAATAG
ACCACCTGCACCAACAGCAACTGTACCTGCCCCACAGCCTCCAGTTACTAAGCCTCTTTT
CCCCAGTGCTGGACAGGCTCAGGCAGCTGTCCAAGGACCTGTTGGTACAGATTTCAAACC
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ACAGTCTACAGCTTCAACAACACTAGTACAACAAATAGTACTGCAGCTAAACCAGCGGCTTC
AATAACAAGTAAGCCTGCTACACTTACAACAACACTAGTGAACCAAGTAAAGTTGATCCATCC
AGATGAGGATATATCCCTGGAAGAGAGAAGGGCACAGTTACCTAAGTATCAACGTAATCT
TCCTCGGCCAGGACAGGCCCCCATCGGTAATCCACCAGTTGGACCAATTGGAGGTATGAT
GCCACCACAGCCAGGCATCCACAGCAACAAGGAATGAGACCCCAATGCCACCTCATGG
TCAGTATGGTGGTCATCATCAAGGCATGCCAGGATACCTTCTGTTGCTATGCCCCCGTA
TGGGCAGGGACCGCAATGGTGGCCCTTACCAGGGTGGGCTCCTCGACCTCCGATGGG
AATGAGACCTCCTGTAATGTCGCAAGGTGGCCGTTACTGATCTTACTTCATCCAGTCTAA
TAGGTTTGGAGATTAACCTTTTCTCAACTTGTGCTGTTTATATAGCCAAGCTTCCGTC
ATAAGGCTTCATTGTGACTTTAACAAACATTATCTTCCCACATACCAGGAACTATTGGAC
ATTTATTTTACATGGGAAAAATTTTGAATAATAAAGCAGGAACTTTTCTGAAAGTTG
CAATTTTACTGTATGGCTTCTTTTTCATGTTTCATCTAGGTTTTTAGAAGTGAAGTATA
GTAATTTTGGTTGTTAAATTGTGAAGGCGCTGGAATTACATGAACATACCACCCTAGTA
AAGGCAAGTTCTGTAAGCTTACATTGCTATTTGTAAAGTTTGCCTTACAGCATTTCAGA
TGCTGTTGGACTTCATGTCCCAACCTAGCTTGGTGGAGGCTGTAAGTGTTCAGTAC
TTGTACATTGGAAGTCTGAATGTGTAACAATATTTAATGTATTTAGAGTTCTCATGTTG
CAGGGTTTAAAGAAATCTGACCCACCAAGGTCATGTGACTTTTCTGTACTGTTAAACTTCA
TTGTAATAAAATGAGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC002372 unedited NNNCCCCGTTTCAGCTTTTGTAAATACGACTCACTATAGNNGGCGGCCGCGATTTCGGCACGA GGCGGAGCGGGGAACGAGGCCGTCGGCCATTTTGTGTCTGCTTCTGTGGGACGTGGTGG TAGCCGTTGGGTTGGGAAAGTGAGGGATTTTGGCCTCGTTTCTCCTGCTTCTTTTCTCC TCCCTTTACTTTGCCGGTAGAACACAGTTATGGGTCGCAAGAAGAAGAAGCAGCTGAAG CCGTGGTGCTGGTATTGTAATAGAGATTTTGTATGATGAGAAGATCCTTATTCAGCACCAA AAAGCAAAGCATTTTAAATGCCATATATGTCACAAGAAATGTATACAGGACCTGGCTTA GCTATTGATTGCATGCAGGTACATAAAGAAACAATAGATGCCGTACCAAATGCAATACCT GGAAGAACAGACATAGAGTTGGAATATATGGTATGGAAGGTATTCCAGAAAAAGACATG GATGAAAGACGACGACTTCTTGAACAGAAAAACAAGAAAGTCAAAAAAGAAAGCAACAA GATGATTCTGATGAATATGATGATGACGACTCTGCAGCCTCAACTTCATTTAGCCACAG CCTGTTCAACCTCAGCAAGGTTATTTCTCCAATGGCACAGCCAGGACTGCCACCAGTA CCAGGAGACCAGGAATGCCTCCAGGCATACCTCCATTAATGCCANGTGTTCCTCCTCTG ATGCCAGGAATGCCACCAGTTATGCCAGGCATGCCACCTGGATTGCATCATCAGAGAAAT ACACCCAGTCATTTGCGGTGAAAACATAATGATGCCCATGGGTGGAATGATGCCCCCTG GACCAGGATACCACCTCTGATGCCTGGAATGCCACCAGTATGCCCCACCTGTTCCACC
Restriction Sites:	Please inquire
ACCN:	BC002372
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:	BC002372.2 , AAH02372.1
RefSeq Size:	2167 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]