

Product datasheet for TL308223

OriGene Technologies, Inc.

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ZNF207 Human shRNA Plasmid Kit (Locus ID 7756)

Product data:

Product Type: shRNA Plasmids

Product Name: ZNF207 Human shRNA Plasmid Kit (Locus ID 7756)

Locus ID: 7756

Synonyms: BuGZ; hBuGZ

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: ZNF207 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 7756).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: BC002372, BC008023, NM 001032293, NM 001098507, NM 003457, NM 001032293.1,

NM 001032293.2, NM 001098507.1, NM 003457.1, NM 003457.2, NM 003457.3, BC002372.2,

BC008023.1, BC000962, NM 001098507.2

UniProt ID: 043670

Summary: Kinetochore- 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]







shRNA Design:

These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).