

Product datasheet for SR305246

OriGene Technologies, Inc.

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ZNF207 Human siRNA Oligo Duplex (Locus ID 7756)

Product data:

Product Type: siRNA Oligo Duplexes

Purity: HPLC purified

Quality Control: Tested by ESI-MS

Sequences: Available with shipment

Stability: One year from date of shipment when stored at -20°C.

of transfections: Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final

conc. 10 nM).

Note: Single siRNA duplex (10nmol) can be ordered. **RefSeq:** NM 001032293, NM 001098507, NM 003457

UniProt ID: <u>O43670</u>

Synonyms: BuGZ; hBuGZ

Components: ZNF207 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 7756)

Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol

Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml

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

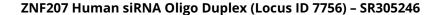
the stability and kinetochore loading of BUB3 (PubMed:24462186, PubMed:24462187).

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]







Performance Guaranteed:

OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will provide at least 70% or more knockdown of the target mRNA when used at 10 nM concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT positive control (cat# SR30003) provides 90% knockdown efficiency.

For non-conforming siRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with newly designed duplexes, 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 siRNA control (quantitative RT-PCR data required).