

Product datasheet for PH317111

ZNF207 (NM_001098507) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ZNF207 MS Standard C13 and N15-labeled recombinant protein (NP_001091977)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217111
Predicted MW:	52.5 kDa
Protein Sequence:	>RC217111 representing NM_001098507 Red=Cloning site Green=Tags(s)

MGRK K K K Q L K P W C W Y C N R D F D D E K I L I Q H Q K A K H F K C H I C H K K L Y T G P L A I H C M Q V H K E T I D A V P N A I P
G R T D I E L E I Y G M E G I P E K D M D E R R R L L E Q K T Q E S Q K K K Q Q D D S D E Y D D D D S A A S T S F Q P Q P V Q P Q Q G Y I P
P M A Q P G L P P V P G A P G M P P G I P P L M P G V P P L M P G M P P V M P G M P P G L H H Q R K Y T Q S F C G E N I M M P M G M M P P
G P G I P P L M P G M P P G M P P V P R P G I P P M T Q A Q A V S A P G I L N R P P A P T A T V P A P Q P P V T K P L F P S A G Q M G T P
V T S S T A S S N S E S L S A S S K A L F P S T A Q A Q A A V Q G P V G T D F K P L N S T P A T T E P P K P T F P A Y T Q S T A S T T S
T T N S T A A K P A A S I T S K P A T L T T T S A T S K L I H P D E D I S L E E R R A Q L P K Y Q R N L P R P G Q A P I G N P P V G P I G G
M M P P Q P G I P Q Q Q G M R P P M P P H G Q Y G G H H Q G M P G Y L P G A M P P Y G Q G P P M V P P Y Q G G P P R P P M G M R P P V M S Q
G G R Y

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001091977</u>
RefSeq Size:	2333
RefSeq ORF:	1482



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Synonyms: BuGZ; hBuGZ

Locus ID: 7756

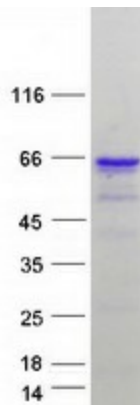
UniProt ID: [O43670](#)

Cytogenetics: 17q11.2

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]

Protein Families: Transcription Factors

Product images:



Coomassie blue staining of purified ZNF207 protein (Cat# [TP317111]). The protein was produced from HEK293T cells transfected with ZNF207 cDNA clone (Cat# [RC217111]) using MegaTran 2.0 (Cat# [TT210002]).