

## Datasheet for ABIN7555456 SETMAR Protein (AA 1-684) (His tag)



Overview

Quantity:	1 mg
Target:	SETMAR
Protein Characteristics:	AA 1-684
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SETMAR protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat SETMAR Protein expressed in mammalien cells.
Sequence:	MFAEAAKTTR PCGMAEFKEK PEAPTEQLDV ACGQENLPVG AWPPGAAPAP FQYTPDHVVG
	PGADIDPTQI TFPGCICVKT PCLPGTCSCL RHGENYDDNS CLRDIGSGGK YAEPVFECNV
	LCRCSDHCRN RVVQKGLQFH FQVFKTHKKG WGLRTLEFIP KGRFVCEYAG EVLGFSEVQR
	RIHLQTKSDS NYIIAIREHV YNGQVMETFV DPTYIGNIGR FLNHSCEPNL LMIPVRIDSM
	VPKLALFAAK DIVPEEELSY DYSGRYLNLT VSEDKERLDH GKLRKPCYCG AKSCTAFLPF
	DSSLYCPVEK SNISCGNEKE PSMCGSAPSV FPSCKRLTLE TMKMMLDKKQ IRAIFLFEFK
	MGRKAAETTR NINNAFGPGT ANERTVQWWF KKFCKGDESL EDEERSGRPS EVDNDQLRAI
	IEADPLTTTR EVAEELNVNH STVVRHLKQI GKVKKLDKWV PHELTENQKN RRFEVSSSLI
	LRNHNEPFLD RIVTCDEKWI LYDNRRRSAQ WLDQEEAPKH FPKPILHPKK VMVTIWWSAA
	GLIHYSFLNP GETITSEKYA QEIDEMNQKL QRLQLALVNR KGPILLHDNA RPHVAQPTLQ
	KLNELGYEVL PHPPYSPDLL PTNYHVFKHL NNFLQGKRFH NQQDAENAFQ EFVESQSTDF

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	YATGINQLIS RWQKCVDCNG SYFD Sequence without tag. The proposed Purification-Tag is
	based on experiences with the expression system, a different complexity of the protein
	could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits:
	<ul> <li>Made to order protein - from design to production - by highly experienced protein experts.</li> <li>Protein expressed in mammalien cells and purified in one-step affinity chromatography</li> <li>The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a made-to-order protein and will be made for the first time for your order. Our
	experts in the lab try to ensure that you receive soluble protein.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

## Target Details

Target:	SETMAR
Alternative Name:	SETMAR (SETMAR Products)
Background:	Histone-lysine N-methyltransferase SETMAR (SET domain and mariner transposase fusion protein) (Metnase) [Includes: Histone-lysine N-methyltransferase (EC 2.1.1.357), Transposon Hsmar1 transposase (EC 3.1)],FUNCTION: Protein derived from the fusion of a methylase with the transposase of an Hsmar1 transposon that plays a role in DNA double-strand break repair, stalled replication fork restart and DNA integration. DNA-binding protein, it is indirectly recruited to sites of DNA damage through protein-protein interactions. Has also kept a sequence-specific DNA-binding activity recognizing the 19-mer core of the 5'-terminal inverted repeats (TIRs) of the Hsmar1 element and displays a DNA nicking and end joining activity (PubMed:16332963, PubMed:16672366, PubMed:17877369, PubMed:17403897, PubMed:18263876, PubMed:22231448, PubMed:24573677, PubMed:20521842). In parallel, has

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	a histone methyltransferase activity and methylates 'Lys-4' and 'Lys-36' of histone H3.
	Specifically mediates dimethylation of H3 'Lys-36' at sites of DNA double-strand break and may
	recruit proteins required for efficient DSB repair through non-homologous end-joining
	(PubMed:16332963, PubMed:21187428, PubMed:22231448). Also regulates replication fork
	processing, promoting replication fork restart and regulating DNA decatenation through
	stimulation of the topoisomerase activity of TOP2A (PubMed:18790802, PubMed:20457750).
	{EC0:0000269 PubMed:16332963, EC0:0000269 PubMed:16672366,
	ECO:0000269 PubMed:17403897, ECO:0000269 PubMed:17877369,
	ECO:0000269 PubMed:18790802, ECO:0000269 PubMed:20457750,
	ECO:0000269 PubMed:20521842, ECO:0000269 PubMed:21187428,
	ECO:0000269 PubMed:22231448, ECO:0000269 PubMed:24573677,
	ECO:0000303 PubMed:18263876}.
Molecular Weight:	78.0 kDa
UniProt:	Q53H47
Pathways:	Positive Regulation of Response to DNA Damage Stimulus
Application Details	
Application Details Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a
	as well. As the protein has not been tested for functional studies yet we cannot offer a
Application Notes:	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Application Notes: Restrictions:	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Application Notes: Restrictions: Handling	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. For Research Use only
Application Notes: Restrictions: Handling Format:	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. For Research Use only Liquid
Application Notes: Restrictions: Handling Format: Buffer:	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. For Research Use only Liquid The buffer composition is at the discretion of the manufacturer.
Application Notes: Restrictions: Handling Format: Buffer: Handling Advice:	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. For Research Use only Liquid The buffer composition is at the discretion of the manufacturer. Avoid repeated freeze-thaw cycles.

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