

## Product datasheet for PH319244

### SETD7 (NM\_030648) Human Mass Spec Standard

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Mass Spec Standards   |
| Description:                          | SETD7 MS Standard C13 and N15-labeled recombinant protein (NP_085151) |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | RC219244  |
| Predicted MW:                         | 40.5 kDa  |
| Protein Sequence:                     | >RC219244 representing NM_030648<br>Red=Cloning site Green=Tags(s)    |

MDSDDMVEEAVEGHLDDGLPHGFCTVTVYSSTRFEGNFVHGEKNGRGKFFFDGSTLEGYYVDDALQG  
QGVYTYEDGGVLQGTYYDVGELNGPAQEYTDGRLIFKGQYKDNIRHGVCWIYYPDGGSLVGEVNEDEGEMT  
GEKIAVYYPDERTALYGKFIGEMIEGKLATLMSTEEGRPHFELMPGNSVYHFDKSTSSCISTNALLPDP  
YESERVYVAESLISSAGEGLFSKVAVGPNTVMSFYNGVRITHQEVDSRDWALNGNTLSLDEETVIDVPEP  
YNHVSKYCASLGHKANHSFTPNCIYDMFVHPRFGPIKCIRTLRAVEADEELTVAYGYDHSPPGKSGPEAP  
EWYQVELKAFQATQQK

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:          | <a href="#">NP_085151</a>  |
| RefSeq Size:     | 7012   |
| RefSeq ORF:      | 1098   |
| Synonyms:        | KMT7; SET7; SET7/9; SET9   |
| Locus ID:        | 80854  |



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UniProt ID: [Q8WTS6](#)

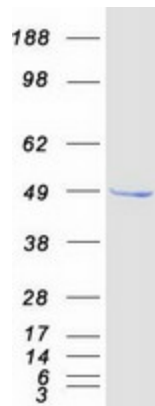
Cytogenetics: 4q31.1

**Summary:** Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes such as collagenase or insulin. Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation.[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome

**Protein Pathways:** Lysine degradation

### Product images:



Coomassie blue staining of purified SETD7 protein (Cat# [TP319244]). The protein was produced from HEK293T cells transfected with SETD7 cDNA clone (Cat# [RC219244]) using MegaTran 2.0 (Cat# [TT210002]).