

## Product datasheet for TP301196M

### SUPT5H (NM\_003169) Human Recombinant Protein

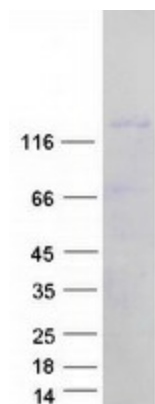
#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Purified recombinant protein of Homo sapiens suppressor of Ty 5 homolog ( <i>S. cerevisiae</i> ) (SUPT5H), transcript variant 1, 100 µg   |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC201196 representing NM_003169<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)  |
|                                       | <p>MSDSEDSNFSEEEEDSERSSDGEEAEVDEERRSAAGSEKEEPEDEEEEEEEYDEEEEEEDDRPPKKP<br/>RHGGFILDEADVDEYEDQWEDGAEDILEKEEIEASNIDNVVLEDRSGARRLQNLWRDQREEELGEY<br/>YMKKYAKSSVGETVYGGSDLSDDITQQQLLPGVKDPNLWTVKCKIGEERATAISLMRKFIAQFTDTPL<br/>QIKSVAPEHVKGYYVEAYKQTHVKQAIIEGVGNLRLGYWNQMVPIKEMTDVLKVVKEVANLKPKSWVR<br/>LKRGIYKDDIAQVDYVEPSQNTISLKMIPRIDYDRIKARMSLKDWFARKKFKRPPQRLFDAEKIRSLGG<br/>DVASDGDFLIFEGNRYSRKGFLEKSFAMSAVITEGVKPTLSELEKFEDQPEGIDLEVTESTGKEREHNF<br/>QPGDNVEVCEGELINLQGKILSVDGNKITIMPKHEDLKDMLFPAQELRKYFKMGDHSVVIAGRFEGDTG<br/>LIVRVEENFVILFSDLTMHELKVLPRDLQLCSETASGVDVGGQHEWGELVQLDPQTVGVIVRLERETFQV<br/>LNMYGKVVTVRHQAVTRKKDNRFVAALDSEQNNIHVKDIVKVIDGPHSGREGEIRHLFRSFAFLHCKKLV<br/>ENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAPMSPRISSPMHPSAGGQRRGGFGSPGGGSGGMSRGRGR<br/>RDNELIGQTVRISQGPYKGYIGVVKDATESTARVELHSTCQTISVDRQLTTVGSRRPGGMTSTYGRTPM<br/>YGSQTPMYGSGSRTPMYGSQTPLQDGSRTPHYGSQTPLHDGSRTPAQSGAWDPNPNTPSRAEEYEFYAF<br/>DDEPTPSPQAYGGTPNPQTPGYDPSSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQGSYQSPSPQS<br/>YHQVAPSPAGYQNTHSPASYHPTSPMAYQASPSPPVGYSPMTPGAPSPGGYNPHTPGSGIEQNSSDWV<br/>TTDIQVKVRDYLDTQVVGQTVIRSVTGGMCSVYLKDKSEKVVSSISSEHLEPITPTKNNKVKVILGEDRE<br/>ATGVLLSIDGEDGIVRMDLDEQLKILNLRFLGKLEA</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| Tag:                                  | C-Myc/DDK   |
| Predicted MW:                         | 120.8 kDa   |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method  |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  |



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|                          |  |
|--------------------------|--|
| <b>Preparation:</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.   |
| <b>Note:</b>             | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.   |
| <b>Storage:</b>          | Store at -80°C.  |
| <b>Stability:</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| <b>RefSeq:</b>           | <a href="#">NP_003160</a>  |
| <b>Locus ID:</b>         | 6829   |
| <b>UniProt ID:</b>       | <a href="#">O00267</a>   |
| <b>RefSeq Size:</b>      | 3762   |
| <b>Cytogenetics:</b>     | 19q13.2  |
| <b>RefSeq ORF:</b>       | 3261   |
| <b>Synonyms:</b>         | SPT5; SPT5H; Tat-CT1   |
| <b>Summary:</b>          | <p>Component of the DRB sensitivity-inducing factor complex (DSIF complex), which regulates mRNA processing and transcription elongation by RNA polymerase II. DSIF positively regulates mRNA capping by stimulating the mRNA guanylyltransferase activity of RNGTT/CAP1A. DSIF also acts cooperatively with the negative elongation factor complex (NELF complex) to enhance transcriptional pausing at sites proximal to the promoter. Transcriptional pausing may facilitate the assembly of an elongation competent RNA polymerase II complex. DSIF and NELF promote pausing by inhibition of the transcription elongation factor TFIIIS/S-II. TFIIIS/S-II binds to RNA polymerase II at transcription pause sites and stimulates the weak intrinsic nuclease activity of the enzyme. Cleavage of blocked transcripts by RNA polymerase II promotes the resumption of transcription from the new 3' terminus and may allow repeated attempts at transcription through natural pause sites. DSIF can also positively regulate transcriptional elongation and is required for the efficient activation of transcriptional elongation by the HIV-1 nuclear transcriptional activator, Tat. DSIF acts to suppress transcriptional pausing in transcripts derived from the HIV-1 LTR and blocks premature release of HIV-1 transcripts at terminator sequences. [UniProtKB/Swiss-Prot Function]</p> |
| <b>Protein Families:</b> | Transcription Factors  |

**Product images:**

Coomassie blue staining of purified SUPT5H protein (Cat# [TP301196]). The protein was produced from HEK293T cells transfected with SUPT5H cDNA clone (Cat# [RC201196]) using MegaTran 2.0 (Cat# [TT210002]).