

## Product datasheet for TP505053

### Dcps (NM\_027030) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse decapping enzyme, scavenger (Dcps), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205053 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MADTAPQLKRKREQEAAEAETPSTEEKEAGVGNNGTSAPVRLPFSGFRVQKVLRESARDKIIFLHGKVNED SGDTHGEDAVILEKTPFQVEHVAQLLTGSPELKLQFSNDIYSTYNLFPPRHLSDIKTTVVYPATEKHLQ KYMRQDLRLIRETGDDYRTITLPYLESQSLSIQWVYNILDKKAEDRIVFENPDPSDGFVLIPDLKWNQQ QLDDLYLIAICHRRGIRSLRDLTPEHLPLLRNLRREGQEAILKRYQVTGDRRLRVYLHYLPSYYHLHVHFT ALGFEAPGSGVERAHLAQQVIENLECDPKHYQQRTLTFALRTDDPLLQLLQKAQQERN  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-MYC/DDK
Predicted MW:	39 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
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_081306</a>
Locus ID:	69305
UniProt ID:	<a href="#">Q9DAR7</a>


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<b>RefSeq Size:</b>	1194
<b>Cytogenetics:</b>	9 A4
<b>RefSeq ORF:</b>	1014
<b>Synonyms:</b>	1700001E16Rik; AA408441
<b>Summary:</b>	<p>Decapping scavenger enzyme that catalyzes the cleavage of a residual cap structure following the degradation of mRNAs by the 3'→5' exosome-mediated mRNA decay pathway. Hydrolyzes cap analog structures like 7-methylguanosine nucleoside triphosphate (m7GpppG) with up to 10 nucleotide substrates (small capped oligoribonucleotides) and specifically releases 5'-phosphorylated RNA fragments and 7-methylguanosine monophosphate (m7GMP). Cleaves cap analog structures like tri-methyl guanosine nucleoside triphosphate (m3(2,2,7)GpppG) with very poor efficiency. Does not hydrolyze unmethylated cap analog (GpppG) and shows no decapping activity on intact m7GpppG-capped mRNA molecules longer than 25 nucleotides. Does not hydrolyze 7-methylguanosine diphosphate (m7GDP) to m7GMP. May also play a role in the 5'→3' mRNA decay pathway; m7GDP, the downstream product released by the 5'→3' mRNA mediated decapping activity, may be also converted by DCPS to m7GMP. Binds to m7GpppG and strongly to m7GDP. Plays a role in first intron splicing of pre-mRNAs. Inhibits activation-induced cell death. [UniProtKB/Swiss-Prot Function]</p>