

## Product datasheet for TP516290

### Dtl (NM\_029766) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse denticleless E3 ubiquitin protein ligase (Dtl), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR216290 representing NM_029766 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MLFNSVLRQPQLGVLRNGWSSHYPQLQSLLSGYQCNCNDEHTSYGETGVPVPPFGCTFCTAPSMEHILAVA NEEGFVRLYNTESQTSKKTCKEWMMAHWNVAVFDLAWVPGELKLVTAAGDQTAKFWDVRAGELMGTCKGHQ CSLKSVAFPKFQKAVFSTGGRDGNIMIWDTRCNKKDGFYRQVNQISGAHNTADKQTPSKPKKKQNSKGLA PAVDSQQSVTVVLFQDENTLVSAGAVDGIKVVWDLRKNYAYRQEPIASKSFLYPGTSTRKLGYSLLVLD STGSTLFANCTDDNIYMFNMTGLKTSVAVFNGHQNSTFYVKSSLSRDDQFLISGSSDEAAYIWKVSMPW HPPTVLLGHQSQEVTSVCWCPSDFTKIATCSDDNTLKIWRNLNRGLEEKPGDKHSIVGWTSQKKKEVKACPV TVPSSQSTPAKAPRAKSSPSSSAACTPSCAGDLPLPSSTPTFSVKTPATTRSSVSRRGSISSVSP KPLSSFKMSLRNWVTRTPSSSPVTPPASETAKISSPRKALIPVSQKSSQADACSESRNRVRRRLDSSCLE SVKQKCVKSCNCVTELDGQAESLRDLCLSGTQEVLSQDSEGPTKSSKTEGAGTSISEPPSPVSPYASE GCGPLPLRPGEGSEMVGKENSPPENKNWLLAIAAKRKAENSSPRSPSSQTPSSRRQSGKTSPGPVTI TPSSMRKICTYFRRKTQDDDFCSPEHSTEL</p> <p><b>TRTRPLEQLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-MYC/DDK
Predicted MW:	79.6 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.



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<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_084042</a>
<b>Locus ID:</b>	76843
<b>UniProt ID:</b>	<a href="#">Q3TLR7</a>
<b>RefSeq Size:</b>	4202
<b>Cytogenetics:</b>	1 H6
<b>RefSeq ORF:</b>	2187
<b>Synonyms:</b>	2810047L02Rik; 5730564G15Rik; L2dtl; Ramp
<b>Summary:</b>	<p>Substrate-specific adapter of a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex required for cell cycle control, DNA damage response and translesion DNA synthesis. The DCX(DTL) complex, also named CRL4(CDT2) complex, mediates the polyubiquitination and subsequent degradation of CDT1, CDKN1A/p21(CIP1), FBH1, KMT5A and SDE2. CDT1 degradation in response to DNA damage is necessary to ensure proper cell cycle regulation of DNA replication. CDKN1A/p21(CIP1) degradation during S phase or following UV irradiation is essential to control replication licensing. KMT5A degradation is also important for a proper regulation of mechanisms such as TGF-beta signaling, cell cycle progression, DNA repair and cell migration. Most substrates require their interaction with PCNA for their polyubiquitination: substrates interact with PCNA via their PIP-box, and those containing the 'K+4' motif in the PIP box, recruit the DCX(DTL) complex, leading to their degradation. In undamaged proliferating cells, the DCX(DTL) complex also promotes the 'Lys-164' monoubiquitination of PCNA, thereby being involved in PCNA-dependent translesion DNA synthesis. The DDB1-CUL4A-DTL E3 ligase complex regulates the circadian clock function by mediating the ubiquitination and degradation of CRY1 (By similarity).[UniProtKB/Swiss-Prot Function]</p>