

## Product datasheet for TP509429

### Cul4a (NM\_146207) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse cullin 4A (Cul4a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209429 representing NM_146207 Red=Cloning site Green=Tags(s)

MADEGPRKGSVSALMGRNGLTKPAALAGGPAKPGGTGGSRKLVIKNFRDRPRLPDNYTQDTWRKLHEAV  
KAIQSSTSIRYNLEELYQAVENLCSHKVSPTLYKQLRQVCEHDVQAQILPFREDSLDSVLFKKINTCWQ  
DHCRQMIMIRSIFLDRTYVLQNSMLPSIWDMGLELFRNHIISDRMVQSKTIDGILLIGRERSGEAVD  
RSLRLSLLSMLSDLQVYKDSFELKFEETNCLYAAEQQLMQDREVPEYLNHVSKRLEEEADRIVITYLDH  
STQKPLIACVEKQLLGEHLTAILQKGLEHLLDENRVPDLTQMYQLFSRVKGGQHALLQHWSEYIKTFGTT  
IVINPEKDKDMVQDLLDFKDKVDHVVEVCFQRNERFINLMKESFETFINRPNKPAELIAKHVDSKLRAG  
NKEATDEELERILDKIMILFRFIHGKDVFEAFYKDLAKRLLVKGKSASVDAEKSMLSCLKHECGAAFTSK  
LEGMFKDMELSKDIMVHFKQHMQNQSAPGPIDLTVNILTMGYWPTYTPMEVHLPPEMVRQLQEVFKTFYLG  
KHSGRKLQWQTTLGHAVLKADFKEGKKEFQVSLFQTLVLLMFNEGDGFSFEEIKMATGIEDSELRRTLQS  
LACGKARVLIKSPKGKEVEDGDKFIFNADFKHKLFRIKINQIQMKETVEEQVSTTERVFQDRQYQIDAAI  
VRIMKMRKTLGHNLLVSELYNQLKFPVKPGDLKKRIESLIDRDYMERDKDSPNQYHYVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	88.2 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_666319</a>
<b>Locus ID:</b>	99375
<b>UniProt ID:</b>	<a href="#">Q3TCH7</a>
<b>RefSeq Size:</b>	3628
<b>Cytogenetics:</b>	8 A1.1
<b>RefSeq ORF:</b>	2277
<b>Synonyms:</b>	2810470J21Rik; AW495282
<b>Summary:</b>	<p>Core component of multiple cullin-RING-based E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. As a scaffold protein may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and is inhibited by the association of the deneddylated cullin subunit with TIP120A/CAND1. The functional specificity of the E3 ubiquitin-protein ligase complex depends on the variable substrate recognition component. DCX(DET1-COP1) directs ubiquitination of JUN. DCX(DDB2) directs ubiquitination of XPC. In association with RBX1, DDB1 and DDB2 is required for histone H3 and histone H4 ubiquitination in response to ultraviolet and may be important for subsequent DNA repair. DCX(DTL) plays a role in PCNA-dependent polyubiquitination of CDT1 and MDM2-dependent ubiquitination of TP53 in response to radiation-induced DNA damage and during DNA replication. In association with DDB1 and SKP2 probably is involved in ubiquitination of CDKN1B/p27kip. Is involved in ubiquitination of HOXA9. DCX(DTL) directs autoubiquitination of DTL (By similarity). The DDB1-CUL4A-DTL E3 ligase complex regulates the circadian clock function by mediating the ubiquitination and degradation of CRY1 (By similarity). With CUL4B, contributes to ribosome biogenesis (By similarity).[UniProtKB/Swiss-Prot Function]</p>