

## Product datasheet for TP526095

### Rnf2 (NM\_011277) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ring finger protein 2 (Rnf2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR226095 representing NM_011277 Red=Cloning site Green=Tags(s)

MSQAVQTNGTQPLSKTWELSLYELQRTQPQEAITDGLEIVVSPRSLHSELMCPICLDMLKNTMTTKECLHR  
FCADCIITALRSGNKECPTCRKKLVSKRSLRDPNFDALISKIYPSRDEYEAHQERVLARINKHNNQQUAL  
SHSIEEGLKIQAMNRLQRGKKQIENGSGAEDNGDSSHCSNASTHSNQEAGPSNKRTKTSDDSGLELDNN  
NAAVAIDPVMGDGASEIELVFRPHPTLMKDDSAQTRYIKTSGNATVDHLSKYLAVRLALEELRSKGESNQ  
MNLDTASEKQYTIYIATASGQFTVLNGSFSLELVSEKYWKVKNKPMELYAPTKEHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	38.1 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_035407</a>
Locus ID:	19821
UniProt ID:	<a href="#">Q9CQJ4</a>



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RefSeq Size: 3028

Cytogenetics: 1 G1

RefSeq ORF: 1008

Synonyms: AI326319; AI450156; AU019207; dinG; Ring1B

**Summary:** E3 ubiquitin-protein ligase that mediates monoubiquitination of 'Lys-119' of histone H2A (H2AK119Ub), thereby playing a central role in histone code and gene regulation (PubMed:15525528, PubMed:22325148, PubMed:28596365). H2AK119Ub gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals (PubMed:15525528, PubMed:28596365). May be involved in the initiation of both imprinted and random X inactivation (PubMed:15525528). Essential component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development (PubMed:22325148, PubMed:16710298). PcG PRC1 complex acts via chromatin remodeling and modification of histones, rendering chromatin heritably changed in its expressibility (PubMed:15525528, PubMed:22325148, PubMed:16710298). E3 ubiquitin-protein ligase activity is enhanced by BMI1/PCGF4 (PubMed:16710298). Acts as the main E3 ubiquitin ligase on histone H2A of the PRC1 complex, while RING1 may rather act as a modulator of RNF2/RING2 activity (PubMed:15525528, PubMed:16710298). Plays a role in the transcriptional repression of genes that are required for pluripotency in embryonic stem cells, thereby contributing to differentiation of the ectodermal and endodermal germ layers (PubMed:22226355). Association with the chromosomal DNA is cell-cycle dependent. In resting B- and T-lymphocytes, interaction with AURKB leads to block its activity, thereby maintaining transcription in resting lymphocytes (PubMed:24034696).[UniProtKB/Swiss-Prot Function]