

## Product datasheet for TP511928

### Kdm3a (NM\_001038695) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Purified recombinant protein of Mouse lysine (K)-specific demethylase 3A (Kdm3a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug  
**Species:** Mouse  
**Expression Host:** HEK293T  
**Expression cDNA** >MR211928 representing NM\_001038695  
**Clone or AA Sequence:** Red=Cloning site Green=Tags(s)

MVLTLGESWPVLVGKRFLSLSAAEGNEGGQDNWDLERVAEWPWLSGTIRAVSHTDVTKKDLKVCVEFDGE  
 SWRKRRWIDVYSLQRKAFLVEHNLVLAERKSPEVPEQVIQWPAIMYKSLLDKAGLGAITSVRFLGDQQSV  
 FVSKDLLKPIQDVNSLRSLTDNQTVSKEFQALIVKHLDESHLLQGDKNLVGVSEVKIYSLDPSTQWFSAT  
 VVHGNPSSKTLQVNCEEIPALKIVDPALIHVEVVDNFVTCGNSTRTGAVKRKSENNGSSVSKQAKSCS  
 EASPSMCPVQSVPTTVFKEILLGCTAATPSSKDPKQNTQQAANSPPNIGAKLPQGCHKQNLPEELSSCL  
 NTKPEVPRTKPDVCKEGLLSKSSQVGAGDLKILSEPKGSCIQPKTNTDQESRLESAPQVPTGLPKECLP  
 AKTSSKAELDIATPELQKHLEHAASTSDDLSDKPEVKAGVTSLNCAEKKVESHLSGSQSNLKETSVK  
 VDNESCCTRSSNKTQTPPARKSVLTDPKVRKLQQSGEAFVQDDSCVNIVAQLPKCRECRDLRDKDKDQ  
 QKDSPVFCRFFHFRRLQFNKHGVLVVEGFLTPNKYDSEAGLWPLTKNVVGTDLDTAKYILANIGDHF  
 QMVISEKEAMSTIEPHRQVAWKRAVKGVREMCVDCDTTIFNLHWVCPRCGFVCVDCYMRKRKNCQQGAA  
 YKTFSWIRC VKSQIHEPENLMPTQIIPGKALYDVGDIVHSVRAKWGIKANCPCSNRQFKLFSKPAKEDL  
 KQTSLSGEKPTLGTMVQSSPVLEPVAVCGEAASKPASSVKPTCPTSTSPNLWLADLTSGNVNKENKEKQ  
 LTMPILKNEIKCLPPLPLNKPSTVLHTFNSTILTPVSNNSGFLRNLLNSSTAKTENGLKNTPKILDDI  
 FASLVQNKTSDDSSKRPQGLTIKPSILGFDTPHYWLCNRLCLQDPNKSNNWNVWFRECKWQGGPVMVSG  
 VHHKLNTELWKPEFRKEFGQEVDLVNCRNEIITGATVGFDFWDFEDVPNRLKNDKEKPMVLKLDW  
 PPGEDFRDMMPSRFDLDMANIPLPEYTRRDGKLNLASRLPNYFVRPDLGPKMYNAYGLITPEDRKYGTTN  
 LHLDVSDAANVMVYVGIKPGQCEQEEVLRTIQDGDSDELTIKRFIEGKEKPGALWHIYAAKDTEKIREF  
 LKKVSEEQGDNPADHDPIHDQSWYLDRLSRKRLYQEYGVQGWAIWQFLGDVVFIPAGAPHQVHNLYS  
 KVAEDFVSPEHVKHCFWLTQEFYLSQHTNHEDKLQVKNVIYHAVKDAVAMLKASESSLGPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-MYC/DDK  
**Predicted MW:** 148.3 kDa



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<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<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 after receiving vials.
<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_001033784</a>
<b>Locus ID:</b>	104263
<b>UniProt ID:</b>	<a href="#">Q6PCM1</a>
<b>RefSeq Size:</b>	4829
<b>Cytogenetics:</b>	6 C1
<b>RefSeq ORF:</b>	3969
<b>Synonyms:</b>	1700105C21Rik; C230043E16Rik; JHDM2a; Jmjd1; Jmjd1a; KDM2A; TGSA; Tsga
<b>Summary:</b>	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Preferentially demethylates mono- and dimethylated H3 'Lys-9' residue, with a preference for dimethylated residue, while it has weak or no activity on trimethylated H3 'Lys-9'. Demethylation of Lys residue generates formaldehyde and succinate. Involved in hormone-dependent transcriptional activation, by participating in recruitment to androgen-receptor target genes, resulting in H3 'Lys-9' demethylation and transcriptional activation (By similarity). Involved in spermatogenesis by regulating expression of target genes such as PRM1 and TNP1 which are required for packaging and condensation of sperm chromatin (PubMed:17943087). Involved in obesity resistance through regulation of metabolic genes such as PPARA and UCP1.[UniProtKB/Swiss-Prot Function]