**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for TP516306

## Nek9 (NM_145138) Mouse Recombinant Protein

### Product data:

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| **Product Type:** | Recombinant Proteins |
| **Description:** | Purified recombinant protein of Mouse NIMA (never in mitosis gene a)-related expressed kinase 9 (Nek9), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| **Species:** | Mouse |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >MR216306 representing NM_145138<br>Red=Cloning site Green=Tags(s)<br><br>MSVLGEYERHCDSINSDFGSESGGGGDSGPGPSAVPGPRAGGGAAEQEELHYIPIRVLGRGAFGEATLYR<br>RTEDDSLVVWKEVDLTRLSEKERRDALNEIVILALLQHDNIIAYYNHFMDNTTLLIELEYCNGGNLYDKI<br>LRQKDKLFEEEMVVWYLFQIVSAVSCIHKAGILHRDIKTLNIFLTKANLIKLGDYGLAKKLNSEYSMAET<br>LVGTPYYMSPELCQGVKYNFKSDIWAVGCVIFELLTLKRTFDATNPLNLCVKIVQGIRAMEVDSSQYSLE<br>LIQLVHACLDQDPEQRPAADALLDLPLLRTRRREMEEKVTLLNAPTKRPRSSTVTEAPIAVVTSRTSEVY<br>VWGGGKSTPQKLDVIKSGCSARQVCAGNTHFAVVTVEKELYTWVNMQGGTKLHGQLGHGDKASYRQPKHV<br>EKLQGKAIHQVSCGDDFTVCVTDEGQLYAFGSDYYGCMGVDKVSGPEVLEPMQLNFFLSNPVEQVSCGDN<br>HVVVLTRNKEVYSWGCGEYGRLGLDSEEDYYTPQRVDVPKALIIVAVQCGCDGTFLLTQSGKVLACGLNE<br>FNKLGLNQCMSGIINHEAYHEVPYTTSFTLAKQLSFYKIRTIAPGKTHTAAIDERGRLLTFGCNKCGQLG<br>VGNYKKRLGINLLGGPLGGKQVIRVSCGDEFTIAATDDNHIFAWGNGGNGRLAMTPTERPHGSDICTSWP<br>RPIFGSLHHVPDLSCRGWHTILIVEKVLNSKTIRSNSSGLSIGTVVQSSSPGGGIGGGGGGGGGGGGEEE<br>DSQQESETPDPSGGFRGTMEADRGMEGLISPTEAVGNSCGASSSCPGWLRKELENAEFIPMPDSPAPLSA<br>AFSQSEKDTLPYEELQGLKVASEVPPEPQRAAGAWPPRLDPAVPCVGKALTSAACACSALQVEVDRLQAL<br>VLKCLEEQQKLQQENLQMFTQLQKLNKKLEGGQQVGMHSRGTQTAKEEMEMDPKPDLDSESWCLLGTDSC<br>RPSL<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-MYC/DDK |
| **Predicted MW:** | 107.6 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 |

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| **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:** | NP_660120 |
| **Locus ID:** | 217718 |
| **UniProt ID:** | Q8K1R7, Q69Z43 |
| **RefSeq Size:** | 5403 |
| **Cytogenetics:** | 12 D1 |
| **RefSeq ORF:** | 2952 |
| **Synonyms:** | C130021H08Rik |
| **Summary:** | Pleiotropic regulator of mitotic progression, participating in the control of spindle dynamics and chromosome separation. Phosphorylates different histones, myelin basic protein, beta-casein, and BICD2. Phosphorylates histone H3 on serine and threonine residues and beta-casein on serine residues Important for G1/S transition and S phase progression. Phosphorylates NEK6 and NEK7 and stimulates their activity by releasing the autoinhibitory functions of Tyr-108 and Tyr-97 respectively (By similarity).[UniProtKB/Swiss-Prot Function] |