

Product datasheet for **TP509332**

Grhl3 (NM_001013756) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse grainyhead like transcription factor 3 (Grhl3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209332 protein sequence Red =Cloning site Green =Tags(s)

MSNELDFRSVRLKNDPVSFQKFPYSNEDEAWKTYLENPLTAATKAMMRVNGDEESVAALSFLYDYDMGP
KEKRILSSSTGGRNDQGKKFYHSMYEPDLAPLESPTHLMKFLTENVSGSPDYTDQLKKNLLGLEGLVLP
TPGKNTVPPGPSKLEASSMDSYLLPASDIYDNGSLNSLFESIHGVPPTQRWQPDSTFKDDPQESLLFPD
ILKTSPDPPCEDYPGLKSDFEYTLGSPKAIHIKAGESPMAYLNKGQFYPVTLRTPAGGKGLALSSSKVK
SVVMVFDNDKVPVEQLRFWRHWHSRQPTAKQRVIDVADCKENFNTVQHIEEVAYNALSFVWNVNEEAKV
FIGVNCSTDFSSQKGVKGVPLNLQIDTYDCGAGTERLVHRAVCQIKIFCDKGAERKMRDDERKQFRRKV
KCPDSSNAGIKGCLLSGFRGNETTYLRPETDLETQPVLFIPNLHFSSLQRPGGVVPSAGHSSDRLPLK
RTCSPFAEEFEPLPSKQAKEDDLQRVLLYVRRETEEVFDALMLKTPDLKGLRNAISEKYGLPEENICKVY
KKCKRGILVNMDNIIQHYSNHVAFLLDMGELDGGKIILKEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	67.8 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.



[View online »](#)

RefSeq: [NP_001013778](#)

Locus ID: 230824

UniProt ID: [Q5FWH3](#)

RefSeq Size: 2798

Cytogenetics: 4 67.76 cM

RefSeq ORF: 1812

Synonyms: A1561912; ct; Get1; Som; Tfcp2l4

Summary: Transcription factor playing important roles in primary neurulation and in the differentiation of stratified epithelia of both ectodermal and endodermal origin. Binds directly to the consensus DNA sequence 5'-AACCGGTT-3' acting as an activator and repressor on distinct target genes. Essential for epidermal differentiation and barrier formation at the end of embryogenesis with TGM3 as critical direct target (PubMed:21081122, PubMed:20654612, PubMed:25347468). Exhibits functional redundancy with GRHL2 in epidermal morphogenetic events such as eyelid fusion and epidermal wound repair (PubMed:21081122). Despite being dispensable during normal epidermal homeostasis in the adulthood, is again required for barrier repair after immune-mediated epidermal damage, regulates distinct gene batteries in embryonic epidermal differentiation and adult epidermal barrier reformation after injury (PubMed:25347468). Plays unique and cooperative roles with GRHL2 in establishing distinct zones of primary neurulation. Essential for spinal closure, functions cooperatively with GRHL2 in closure 2 (forebrain/midbrain boundary) and posterior neuropore closure (PubMed:14608380, PubMed:20654612). Also required for proper development of the oral periderm (PubMed:24360809). No genetic interaction with GRHL1, no functional cooperativity due to diverse target gene selectivity (PubMed:21081122).[UniProtKB/Swiss-Prot Function]