

Product datasheet for TP301259M

DRG1 (NM_004147) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human developmentally regulated GTP binding protein 1 (DRG1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201259 protein sequence Red =Cloning site Green =Tags(s)

MSSTLAKIAEIEAEMARTQKNKATAHHLGLLKARLAKLRRELITPKGGGGGGPGEFVAKTGDARIGFV
GFPSVGKSTLLSNLAGVYSEVAAYEFTLLTTPGVIRYKGAQIQLLDLPGIIEGAKDGKGRGRQVIAR
TCNLILIVLDVLKPLGHKKIENELEGFGIRLNSKPPNIGFKKKDKGGINLTATCPQSELDAETVKSILA
EYKIHNADVTLRSDATADDLIDVVEGNRVYIPCIYVLNKIDQISIEELDIYKVPHPISAHHRWNFDD
LLEKIWDYLLKLVRIYTKPKGQLPDYTSPWLPYSRTTVEDFCMKIHKNLIKEFKYALVWGLSVKHNPQKV
GKDHTLEDEDVIQIVKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	40.4 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.
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:	<u>NP_004138</u>



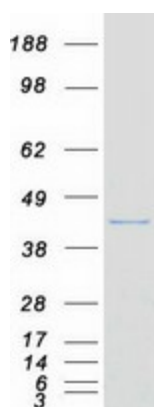
[View online »](#)

Locus ID: 4733
UniProt ID: [Q9Y295](#)
RefSeq Size: 1467
Cytogenetics: 22q12.2
RefSeq ORF: 1101
Synonyms: NEDD3

Summary: Catalyzes the conversion of GTP to GDP through hydrolysis of the gamma-phosphate bond in GTP (PubMed:29915238, PubMed:23711155). Appears to have an intrinsic GTPase activity that is stimulated by ZC3H15/DFRP1 binding likely by increasing the affinity for the potassium ions (PubMed:23711155). When hydroxylated at C-3 of 'Lys-22' by JMJD7, may bind to RNA and play a role in translation (PubMed:19819225, PubMed:29915238). Binds to microtubules and promotes microtubule polymerization and stability that are required for mitotic spindle assembly during prophase to anaphase transition. GTPase activity is not necessary for these microtubule-related functions (PubMed:28855639).[UniProtKB/Swiss-Prot Function]

Protein Families: Transcription Factors

Product images:



Coomassie blue staining of purified DRG1 protein (Cat# [TP301259]). The protein was produced from HEK293T cells transfected with DRG1 cDNA clone (Cat# [RC201259]) using MegaTran 2.0 (Cat# [TT210002]).