

Product datasheet for **TP510572**

Dgcr8 (NM_033324) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse DGCR8, microprocessor complex subunit (Dgcr8), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210572 protein sequence Red =Cloning site Green =Tags(s)
	<p>METYESPSPLPREPAGEAMMENRACPFQVLPHEQSPPPPLQTSSDAEVM DVGSGGDGQSEPPADDPFNFY GASLLSKGSFSKGRLLIDPNCSGHSPRTARHAPAVRKFSFDLKKLDVKISVSFTESCRSKDRKVLTYGV ERSTRPECGQLLSPVSGDVHACPFGGSVGNGVGLGGESADKKDEENELDQEKRVEYAVLDELEDFTDNLE LDEEGTGGFTA KAIVQRDRVDEEALNFSYEDDFDNDVDALLEEGLCAPKRRMEEKYGGSDSDHPSDGETS VQPMMTKIKTVLKSRRPTEPLPDGWIMTFHNSGVPVYLHRESRVTW SRPYFLGTGSIRKHDPPSSI PCLHYKKMKDNEEREQNC DLAPSGEVSPVKPLGRSAELDFLEEPDSMGGDSGSMDEKDPLGAEAAAGAL GQVKAKVEVCKDESVDLEEFRNYLEKRFDFEQVTVKKFRTWAERRQFNREMKRKAESERPILPANQKLI TLSVQDAPTKKEFVINPNGKSEVCILHEYMQRVLKVRPVYNFFECENPSEPF GASVTIDGVTYGSSTASS KKLAKNKAARATLEILIPDFVKQTSEEKPKDSEELYFNHISIEDSRVYELTSKAGLLSPYQILHECLKR NHGMGDTSIKFEVPGKNQKSEYVMACGKHTVRGWCKNKRVGKQLASQKILQLLHPHVKNWGSLLRMYGR ESSKMVKQETSDKSVIELQYAKKNRPNLHILSKLQEEMKRLAAEREETRKKPKMSIVASAPGGGEPLCT VDV</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	86.8 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.



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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_201581
Locus ID:	94223
UniProt ID:	Q9EQM6
RefSeq Size:	4226
Cytogenetics:	16 11.31 cM
RefSeq ORF:	2322
Synonyms:	D16H22S788E; D16H22S1742E; D16Wis2; Gy1; mir-1306; N41; Vo59c07
Summary:	Component of the microprocessor complex that acts as a RNA- and heme-binding protein that is involved in the initial step of microRNA (miRNA) biogenesis (PubMed:17259983). Component of the microprocessor complex that is required to process primary miRNA transcripts (pri-miRNAs) to release precursor miRNA (pre-miRNA) in the nucleus. Within the microprocessor complex, DGCR8 function as a molecular anchor necessary for the recognition of pri-miRNA at dsRNA-ssRNA junction and directs DROSHA to cleave 11 bp away from the junction to release hairpin-shaped pre-miRNAs that are subsequently cut by the cytoplasmic DICER to generate mature miRNAs. The heme-bound DGCR8 dimer binds pri-miRNAs as a cooperative trimer (of dimers) and is active in triggering pri-miRNA cleavage, whereas the heme-free DGCR8 monomer binds pri-miRNAs as a dimer and is much less active. Both double-stranded and single-stranded regions of a pri-miRNA are required for its binding. Specifically recognizes and binds N6-methyladenosine (m6A)-containing pri-miRNAs, a modification required for pri-miRNAs processing (By similarity). Involved in the silencing of embryonic stem cell self-renewal (PubMed:17259983).[UniProtKB/Swiss-Prot Function]