

Product datasheet for **TP523598**

Rpe65 (NM_029987) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse retinal pigment epithelium 65 (Rpe65), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR223598 representing NM_029987 Red =Cloning site Green =Tags(s)

MSIQIEHPAGGYKKLFETVEELSSPLTAHVTVGRIPWLWTGSLLRCPGLFEVGPSEPFYHLFDGQALLHKF
DFKEGHVTYHRRFIRTDAYVRAMTEKRIVITEFGTCAFPDPCKNIFSRFFSYFKGVEVTDNALVNIYPVG
EDYYACTETNFITKINPETLETIKQVDLCNYISVNGATAHPHIESDGTVYNIGNCFGKNFTVAYNIKIP
PLKADKEDPINKSEVVVQFPCSDRFKPSYVHSFGLTPNYIVFVETPVKINLKFLLSSWSLWGANYMDCFE
SNESMGVWLHVADKRRRKYFNKYRTSPFNLFHHINTYEDNGFLIVDLCCWKGFEFVYNYLYLANLRENW
EEVKRNAMKAPQPEVRRYVPLPTIDKVDTEGRNLVTLPHTTATATLRSDETIWLEPEVLFSGPRQAFEPQ
INYQKFGGKPYTYAYGLGLNHVFPDKLCKMNVKTKIEWMWQEPDSYPSEPIFVSQPDALIEDDGVVLSV
VSPGAGQKPAYLLVLNAKDLSEIARAETNIPVTFHGLFKRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	61.5 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.
RefSeq:	NP_084263



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Locus ID:	19892
UniProt ID:	Q91ZQ5
RefSeq Size:	1862
Cytogenetics:	3 82.52 cM
RefSeq ORF:	1599
Synonyms:	65kDa; A930029L06Rik; LCA2; Mord1; rd12; RP20
Summary:	<p>Critical isomerohydrolase in the retinoid cycle involved in regeneration of 11-cis-retinal, the chromophore of rod and cone opsins. Catalyzes the cleavage and isomerization of all-trans-retinyl fatty acid esters to 11-cis-retinol which is further oxidized by 11-cis retinol dehydrogenase to 11-cis-retinal for use as visual chromophore (PubMed:15765048, PubMed:9843205, PubMed:23407971, PubMed:28500718). Essential for the production of 11-cis retinal for both rod and cone photoreceptors (PubMed:17251447). Also capable of catalyzing the isomerization of lutein to meso-zeaxanthin an eye-specific carotenoid. The soluble form binds vitamin A (all-trans-retinol), making it available for LRAT processing to all-trans-retinyl ester. The membrane form, palmitoylated by LRAT, binds all-trans-retinyl esters, making them available for IMH (isomerohydrolase) processing to all-cis-retinol. The soluble form is regenerated by transferring its palmitoyl groups onto 11-cis-retinol, a reaction catalyzed by LRAT (By similarity).[UniProtKB/Swiss-Prot Function]</p>