

Product datasheet for **TP501915**

Rd3 (NM_023727) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse retinal degeneration 3 (Rd3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR201915 protein sequence Red =Cloning site Green =Tags(s)

MSLIPWLRWNDTPPRLSARTPAEMVLETLMMELAGQMREVERQQRERRSAVRKICTGVDYSWLANTPRPT
YDISPGERLQLEDVCAKIHPSCYCGPAILRFRQLLAEREPEVQEVARLFRSVLQEALMKQEEEEAHKLTR
QWSLRPRGSLSSFKTRARIAPFASDIRTISEDVERDAPPPRTWSMPEFRAPQAD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	22.7 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:	<u>NP_076216</u>
Locus ID:	74023
UniProt ID:	<u>Q8BRE0</u>
RefSeq Size:	3720
Cytogenetics:	1 97.09 cM



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RefSeq ORF: 588

Synonyms: 3322402L07Rik; rd-3

Summary: Plays a critical role in the regulation of enzymes involved in nucleotide cycle in photoreceptors (PubMed:21078983, PubMed:27471269). Inhibits the basal catalytic activity and the GCAP-stimulated activity of GUCY2E and GUCY2F, two retinal guanylyl cyclases involved in the production of cGMP in photoreceptors (PubMed:27471269). Involved in the transport of GUCY2E and GUCY2F to their target sites in the photoreceptor outer segment (PubMed:21078983). Up-regulates the activity of GUK1, a kinase that plays also an essential role for recycling GMP and indirectly, cGMP (By similarity). Plays an important role for the survival of rods and cones in the retina (PubMed:8486383, PubMed:17186464).
[UniProtKB/Swiss-Prot Function]