

## Product datasheet for TP523022

### Rec114 (NM\_028598) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse REC114 meiotic recombination protein (Rec114), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR223022 representing NM_028598 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MSEAGNVASGLGLPGEVSQWSLKRYGRFMLLDNVGSPGPSSEAAAAGSPTWKVFESSEESGSLVLTIVVS GHFFISQGQTLLEGFSLIGSKNWLKIVRRMDCLLFGTTIKNKSRMFRVQFSGESKEEALERCCGCVQTLA QYVTVQEPDSTTQELQQSQGPREGESQGDPLQQGPSLTLEQHVCMAAGAGVLQERTSVTHRAQSILA P EKLTLAYEGSSWGTEELGPFLRLCLMDQNFPAFVEEVEKELKKITGLRN
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-MYC/DDK
Predicted MW:	28.2 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:	<a href="#">NP_082874</a>
Locus ID:	73673
UniProt ID:	<a href="#">Q9CWH4</a>



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RefSeq Size: 883

Cytogenetics: 9

RefSeq ORF: 777

Synonyms: 2410076I21Rik; 4930527A11Rik

**Summary:** Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination (PubMed:20551173, PubMed:27723721). Probably acts by forming a complex with IHO1/CCDC36 and MEI4, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis (PubMed:27723721).  
[UniProtKB/Swiss-Prot Function]