

## Product datasheet for TP502572

### Chac1 (NM\_026929) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ChaC, cation transport regulator 1 (Chac1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR202572 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	 MKQESASQSTPPPSLSPAPSSAQPFWGDGDPQALWIFGYGSLVWKPDFAYSDSRVGFVRGYSRRFWQGDT FHRGSDKMPGRVVTLLDHEGCTWGVAYQVRGEQVNEALKYLVNREAVLGGYDTKEVTFYPQDTPDQPLT ALAYVATPQNPGYLGPAPEEVIATQILACRFGSGHNLEyllRLADFMQLCGPQAQDEHLEAIVDAVGTLL PCSYLPEQPLALT  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-MYC/DDK
Predicted MW:	24.6 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_081205</a>
Locus ID:	69065
UniProt ID:	<a href="#">Q8R3J5</a>
RefSeq Size:	1583



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Cytogenetics: 2 E5

RefSeq ORF: 672

Synonyms: 1810008K03Rik

**Summary:** Catalyzes the cleavage of glutathione into 5-oxo-L-proline and a Cys-Gly dipeptide. Acts specifically on glutathione, but not on other gamma-glutamyl peptides. Glutathione depletion is an important factor for apoptosis initiation and execution. Acts as a pro-apoptotic component of the unfolded protein response pathway by mediating the pro-apoptotic effects of the ATF4-ATF3-DDIT3/CHOP cascade (By similarity). Negative regulator of Notch signaling pathway involved in embryonic neurogenesis: acts by inhibiting Notch cleavage by furin, maintaining Notch in an immature inactive form, thereby promoting neurogenesis in embryos (PubMed:22445366).[UniProtKB/Swiss-Prot Function]