

## Product datasheet for TP519373

### Slc30a10 (NM\_001033286) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse solute carrier family 30, member 10 (Slc30a10), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR219373 representing NM_001033286 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MGRYSGKTCRLLFMLVLTAFFVAELVSGYLGNSIALLSDSFNMLSDLISLCVGLGSGYIARRGPRGSSA  
TYGYVRAEVGALSNAVFLTALCFTIFVEAVLRLARPERIDDPPELVLIVGALGLAVNVVGLLIFQDCGAC  
FSRCTRGRTRPSQPSQGDPRGALGCPQEAATATAPGSGTAVTLRGSSAGRKQQEGATVFSNVAGDSL  
TENEPEETTKKEKKSEALNIRGVLLHVMGDALGSVVVITAIIFVYVQPLRREDPCNWQCYIDPSLTVMMV  
IIILSSAFPLIKETAVILLQMPKGVNMEELMSQLSTVPGISSVHEVHIWELISGKIIATLHIKHQKGTE  
YQDASRKIREIFHHAGIHNVTIQFETLDLKEALEQKDFLLTCSAPCITQSCAKKLCCPPGTLPLALVNGC  
AEHNGRSSRESYRSIEAPEVAIDVDGCPREQGQTLTKTQERQHYENSTHF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	51.4 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><a href="#">NP_001028458</a></u>
Locus ID:	226781



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UniProt ID: [Q3UVU3](#)

RefSeq Size: 5836

Cytogenetics: 1 H5

RefSeq ORF: 1410

Synonyms: E130106K10Rik; Gm212

**Summary:** Plays a pivotal role in manganese transport. Manganese is an essential cation for the function of several enzymes, including some crucially important for the metabolism of neurotransmitters and other neuronal metabolic pathways. However, elevated levels of manganese are cytotoxic and induce oxidative stress, mitochondrial dysfunction and apoptosis. Acts as manganese efflux transporter and confers protection against manganese-induced cell death. Also acts as zinc transporter involved in zinc homeostasis. Seems to mediate zinc transport into early endosomes and recycling endosomes to prevent zinc toxicity; the function may be regulated by heterodimerization with other zinc transporters of the SLC30A subfamily. The SLC30A3:SLC30A10 heterodimer is involved in zinc transport-dependent regulation of the EGFR/ERK transduction pathway in endosomes. May be involved in regulation of zinc-dependent senescence of vascular smooth muscle cells.[UniProtKB/Swiss-Prot Function]