

## Product datasheet for **TP508351**

### **Snx1 (NM\_019727) Mouse Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins  
**Description:** Purified recombinant protein of Mouse sorting nexin 1 (Snx1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

**Species:** Mouse

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >MR208351 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MASGGGGCSASERLPPFPFGMDPESEGAAGGSEPEAGDSDTEGEDIFTGAAAATKPQSPKTTSLFPIKN  
GSKENGIHEDQDQEPQDLFADATVELSLDSTQNNQKTM PGKTLTSHPPQEATNSPKPQPSYEELEEEQED  
QFDLTVGITDPEKIGDGMNAYVAYKVTTQTS LPMFRSRQFAVKRRFSDLGLYEK LSEKHSQNGFVPPPP  
PEKSLIGMTKVKGKEDSSSAEFLEKRRALERYLQRIVNHPTMLQDPDVREFLEKEELPRAVGTQALSG  
AGLLKMFNKATDAVSKMTIKMNESDIWFEEKLQEVECEEQLRKLHVVETLVNHRKELALNTALFAKSL  
AMLGSSDNTALSRALSQLAEEVEEKIEQLHQEQANNDFFLLAELLSDIYIRLLAIVRAAFDQRMKTWQRWQ  
DAQATLQKKRESEARLLWANKPDKLQQA KDEITEWESRVTQYERDFERISTVVRKEVTRFEKEKSKDFKN  
HVMKYLETLLHSQQQLAKYWEAFLPEAKAIS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-MYC/DDK

**Predicted MW:** 59.3 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\\_062701](#)



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Locus ID: 56440

UniProt ID: [Q9WV80](#), [Q6NZD2](#)

RefSeq Size: 2079

Cytogenetics: 9 C

RefSeq ORF: 1566

**Summary:** Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Acts in part as component of the retromer membrane-deforming SNX-BAR subcomplex. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor membrane into a tubular profile called endosome-to-TGN transport carrier (ETC). Can sense membrane curvature and has in vitro vesicle-to-membrane remodeling activity. Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptors (IGF2R, M6PR and SORT1). Plays a role in targeting ligand-activated EGFR to the lysosomes for degradation after endocytosis from the cell surface and release from the Golgi. Involvement in retromer-independent endocytic trafficking of P2RY1 and lysosomal degradation of protease-activated receptor-1/F2R. Promotes KALRN- and RHOG-dependent but retromer-independent membrane remodeling such as lamellipodium formation; the function is dependent on GEF activity of KALRN. Required for endocytosis of DRD5 upon agonist stimulation but not for basal receptor trafficking (By similarity).[UniProtKB/Swiss-Prot Function]