

Product datasheet for **TP518532**

Prex2 (NM_029525) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2 (Prex2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T



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Expression cDNA Clone >MR218532 representing NM_029525
or AA Sequence: Red=Cloning site Green=Tags(s)

MSDESAREVDKQLRLRVCVLSLQKTERDYVGTLEFLVSAFLHRMNQCAAQKVDKNVTEETVKMLFSNIE
 EILIVHKEFLKVVVECLYPEPSAQQEVGACFLHFKDKFRIYDEYCSNHEKAQKLLLELNKIRTIRTFLLN
 CMLLGRKNTDVPLEGYLVTPIQRICKYPLLLKELLKRTPRRHSYDTAVMEALQAMKAVCSNINEAKRQM
 EKLEVLEEWQAHIEGWEGSNITDTCTEMLMCGVLMKISSGNIQERVFFLFDNLLVYCKRKHRRLLKNSKAS
 TDGYRYVFRGRINTEVMEVENVDDGTADFHSSGHVINGWKIHNHTAKNKWFVCMASPEEKHEWFMAILK
 ERERRKGLKLGMEQDTWVMISEQGEKLYKMMCKQGNIKDRKRKLTTFPKCFLGSEFVSWLLEIGEHRP
 EEGVHLGQALLENGIIHHVTDKHQFKPEQMLYRFRYDDGTFYRSEMVDVSKGVRLYCRHLHSLFTPVVR
 DKDYHLRITYKSVWMANKLIDWLIAQGD CRTREEAMIFAVGLCDNGFMHHVLEKSEFKDEPLFRFFADEE
 MEGSNMKHRLMKHDLKVENVIAKSLLIKSNEGSYGFLEDKNKVPIIKLVEKGSNAEMAGMEVGKKIFA
 INGDLVFLRPFPEVDCFLKSLNSRKPLRVLVSTKPRETVKIPDSADGLGFQIRGFGSPVHAVGRGTVA
 AAAGLHPGQCIKVNGINVSKETHASVIAHVACRKYKRP MKQDSIQWVYDSLESAQEDIQKSHSKPPGD
 GAGDAFECKVEDVIDKFNTMAIIDGKKEHVSLTVDNVHLEYGVVYEDSTAGTKCNVVEKMVEPKGFFSL
 TAKILEALAKSDEHFVQNCTSLNSLNEVIATDLQSKFTSMCSERIEHVCHRISYGRFSRVLKNRAWPTF
 KQAKPKISPLHSSDFCPTNCHVNVMEVSYPKTSTSLGSAFGVQLDSRKHNSHDKENKSVEPGKLSPMVYI
 QHTITTTMAAPSGLSLGHKDGHLQYLLKEEDLETQDIYHKLKGLQTALKEVMSVCQIDLLSSITYSP
 KLERKTTECVTPMDSNEKGERNSKRVCFNVAGDEQEDSGHDTVSNRDSYSDCNSNRNSIASFTSICSSQ
 CSSYFHSDEMDSGDELPISVRISHDKQDKIHTCLEQLFSQIDSIINLLKGQAVIRAFEQTKYLT PGRGLQ
 EFQQEMEAKLSCPRRLRLHLKQDPWNLPSIQALAQSIKHAEEVKRILLALLEYS DSETQLRRDMVFC
 QSLVATVCAFSEQLMAALNQMF DNSKENEMETCEASRRWLDQIANAGVLFHFQSLLSPLNKDEQAMLEDT
 LVALFDLEKVSFFFK PSEEDPLVANVPLTYQVEGSRQALKVYFYMDSYHFEQLPQRLKNGGGFKIHPVLF
 SQALESMEGYCYRDNISVEEFQAQINTASLEKVKQYNQKLRAFYLDKSNSPNTT SKAAYIDKLMKPLNA
 LDELYRLITSFIRSKRIAACVNTPCSASGVLLSVSSELCDRLGACHIIMCSSGVHRCTLSVTLEQTITL
 ARSHGLPPRYIMQAMDVMRKQGARVQNTAKNLGVRDRTPQSAPRLYKLC EPPPPVGE E

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 181.7 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: [NP_083801](#)

Locus ID: 109294

UniProt ID:	<u>Q3LAC4</u>
RefSeq Size:	11057
Cytogenetics:	1 A2
RefSeq ORF:	4794
Synonyms:	6230420N16Rik; AI316880; AI553603; C030045D06Rik; D430013K02; Depdc2; P-Rex2
Summary:	Functions as a RAC1 guanine nucleotide exchange factor (GEF), activating Rac proteins by exchanging bound GDP for free GTP. Its activity is synergistically activated by phosphatidylinositol 3,4,5-trisphosphate and the beta gamma subunits of heterotrimeric G protein. Mediates the activation of RAC1 in a PI3K-dependent manner. May be an important mediator of Rac signaling, acting directly downstream of both G protein-coupled receptors and phosphoinositide 3-kinase (By similarity).[UniProtKB/Swiss-Prot Function]