

## Product datasheet for TP510191

### Ngef (NM\_001111314) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse neuronal guanine nucleotide exchange factor (Ngef), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210191 protein sequence Red=Cloning site Green=Tags(s)

METKNSDWDGKPKQRKSESSSRKSNHGPAEMRPALPPENREAPETGEETQNEEPRRLIPIQRHSLFNRAVR  
HRHKARSTSERRASDQADLPKMGKSVNERSAFNLPGRLSPWRTPAQRDTGAQEASESSSTPGNGTTPPEE  
CPALTDSPPTLLEALQMIHPIPADSWRNLIQIGLLYQEYRDKSTLQEIETRRQQDAEIQGNSDGSQVGE  
DAGEEEEEEEEEELASPPERRALPQICLLSNPHSRFNLWQDLPEIQSSGVLIDILQPEEIRLQEAMFE  
LVTSEASYKSLNLLVSHFMENERLKKILHPSEAHILFSNVLDVMAVSERFLELEHRMEENIVISDVCD  
IVYRYAADHFSVYITYVSNQTYQERTYKQLLQEKAAFRELIAQLELDPKCKGLPFSSFLILPFQRITRLK  
LLVQNILKRVEERSEREGTALDAHKELEMVVKACNEGVRKMSRTEQMISIQKKMEFKIKSVPIISHSRWL  
LKQGELQQMSGPKTSRTLRTKFLFREIYFLFNDLLVICRQIPGDKYQVFD SAPRGLL RVEELEDQGQTL  
ANVFILRLL ENADDREATYMLKASSQSEMKRWMTSLAPNRRTK FVSFTSRLLD CPQVQC VHPYVAQQPDE  
LTLELADILNILEKTEDGWIFGERLHDQERGWFPSSMTEEILNPKIRSQNLKECFRVHKMEDPQRSQNKD  
RRKLGSRNRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	82.2 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.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001104784</a>
<b>Locus ID:</b>	53972
<b>UniProt ID:</b>	<a href="#">Q8CHT1</a> , <a href="#">E9QK62</a>
<b>RefSeq Size:</b>	3127
<b>Cytogenetics:</b>	1 44.42 cM
<b>RefSeq ORF:</b>	2133
<b>Synonyms:</b>	ephexin; Tims2
<b>Summary:</b>	Acts as a guanine nucleotide exchange factor (GEF) which differentially activates the GTPases RHOA, RAC1 and CDC42. Plays a role in axon guidance regulating ephrin-induced growth cone collapse and dendritic spine morphogenesis. Upon activation by ephrin through EPHA4, the GEF activity switches toward RHOA resulting in its activation. Activated RHOA promotes cone retraction at the expense of RAC1- and CDC42-stimulated growth cone extension. [UniProtKB/Swiss-Prot Function]