

## Product datasheet for **TP306775L**

### Ephexin 1 (NGEF) (NM\_019850) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human neuronal guanine nucleotide exchange factor (NGEF), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206775 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

METRESEDLEKTRRKSASDQWNTDNEPAKVKPELLPEKEETSQADQDIQDKEPHCHIPIKRNSIFNRSIR  
RKSKAKARDNPERNASCLADSQDNGKSVNEPLTLNIPWSRTPPCRTAMQTDPGAQEMSESSSTPGNGATP  
EEWPALADSPPTLLEALRMIHIPADSWRNIEQIGLLYQEYRDKSTLQEIETRRQQDAEIEDNTNGSPA  
SEDTPEEEEEEEEEEPASPPERKTLQPICLLSNPHSRFNLWQDLPEIRSSGVLEILQPEEIKLQEAMFE  
LVTSEASYKSLNLLVSHFMENERIRKILHPSEAHILFSNVLDVLAVSERFLELEHRMEENIVISDVCD  
IVYRYAADHFSVYITYVSNQTYQERTYKQLLQEKAARELIAQLELDPKCRGLPFSSFLILPFQRITRLK  
LLVQNILKRVEERSERECTALDAHKELEMVVKACNEGVRKMSRTEQMISIQKMEFKIKSVPIISHRWL  
LKQGELQQMSGPKTSRTLRTKFLFHEIYLFNDLLVICRQIPGDKYQVFDAPRGLLRVEELEDQGQTL  
ANVFILRLLENADDREATYMLKASSQSEMKRWMTSLAPNRRTKFVSFTSRLLDPCVQVCPHYVAQQPDE  
LTLELADILNILDKTDDGWIFGERLHDQERGWFPSSMTEEILNPKIRSQNLKECFRVHKMDDDPQRSQNKD  
RRKLGSRNRQ

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

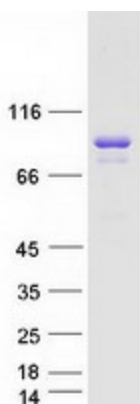
Tag:	C-Myc/DDK
Predicted MW:	82.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



[View online »](#)

<b>Storage:</b>	Store at -80°C.
<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_062824</a>
<b>Locus ID:</b>	25791
<b>UniProt ID:</b>	<a href="#">Q8N5V2</a>
<b>RefSeq Size:</b>	3184
<b>Cytogenetics:</b>	2q37.1
<b>RefSeq ORF:</b>	2130
<b>Synonyms:</b>	ARHGEF27; EPHEXIN
<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 (By similarity). [UniProtKB/Swiss-Prot Function]
<b>Protein Pathways:</b>	Axon guidance

### Product images:



Coomassie blue staining of purified NGEF protein (Cat# [TP306775]). The protein was produced from HEK293T cells transfected with NGEF cDNA clone (Cat# [RC206775]) using MegaTran 2.0 (Cat# [TT210002]).