

Product datasheet for TP306775M

OriGene Technologies, Inc.

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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, 100 µg

Species: Human Expression Host: HEK293T

Expression cDNA Clone >RC206775 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

METRESEDLEKTRRKSASDQWNTDNEPAKVKPELLPEKEETSQADQDIQDKEPHCHIPIKRNSIFNRSIR RKSKAKARDNPERNASCLADSQDNGKSVNEPLTLNIPWSRTPPCRTAMQTDPGAQEMSESSSTPGNGATP EEWPALADSPTTLTEALRMIHPIPADSWRNLIEQIGLLYQEYRDKSTLQEIETRRQQDAEIEDNTNGSPA SEDTPEEEEEEEEEEEPASPPERKTLPQICLLSNPHSRFNLWQDLPEIRSSGVLEILQPEEIKLQEAMFE LVTSEASYYKSLNLLVSHFMENERIRKILHPSEAHILFSNVLDVLAVSERFLLELEHRMEENIVISDVCD IVYRYAADHFSVYITYVSNQTYQERTYKQLLQEKAAFRELIAQLELDPKCRGLPFSSFLILPFQRITRLK LLVQNILKRVEERSERECTALDAHKELEMVVKACNEGVRKMSRTEQMISIQKKMEFKIKSVPIISHSRWL LKQGELQQMSGPKTSRTLRTKKLFHEIYLFLFNDLLVICRQIPGDKYQVFDSAPRGLLRVEELEDQGQTL ANVFILRLLENADDREATYMLKASSQSEMKRWMTSLAPNRRTKFVSFTSRLLDCPQVQCVHPYVAQQPDE LTLELADILNILDKTDDGWIFGERLHDQERGWFPSSMTEEILNPKIRSQNLKECFRVHKMDDPQRSQNKD RRKLGSRNRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 82.3 kDa

Concentration: $>0.05 \mu g/\mu L$ 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.



Ephexin 1 (NGEF) (NM_019850) Human Recombinant Protein - TP306775M

Storage: Store at -80°C.

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 062824

 Locus ID:
 25791

 UniProt ID:
 Q8N5V2

 RefSeq Size:
 3184

 Cytogenetics:
 2q37.1

 RefSeq ORF:
 2130

Synonyms: ARHGEF27; EPHEXIN

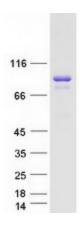
Summary: Acts as a guanine nucleotide exchange factor (GEF) which differentially activates the GTPases

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]

Protein Pathways: 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]).