

## Recombinant Mouse Pef1 Protein, Myc/DDK-tagged

Cat. No. Pef1-4789M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length penta-EF hand domain containing 1 (Pef1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>Calcium-binding protein that acts as an adapter that bridges unrelated proteins or stabilizes weak protein-protein complexes in response to calcium. Together with PDCD6, acts as calcium-dependent adapter for the BCR(KLHL12) complex, a complex involved in endoplasmic reticulum (ER)-Golgi transport by regulating the size of COPII coats. In response to cytosolic calcium increase, the heterodimer formed with PDCD6 interacts with, and bridges together the BCR(KLHL12) complex and SEC31 (SEC31A or SEC31B), promoting monoubiquitination of SEC31 and subsequent collagen export, which is required for neural crest specification. Its role in the heterodimer formed with PDCD6 is however unclear: some evidence shows that PEF1 and PDCD6 work together and promote association between PDCD6 and SEC31 in presence of calcium. Other reports show that PEF1 dissociates from PDCD6 in presence of calcium, and may act as a negative regulator of PDCD6. Also acts as a negative regulator of ER-Golgi transport; possibly by inhibiting interaction between PDCD6 and SEC31.</p>
<b>Molecular Mass</b>	29.3 kDa

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<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>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Pef1 penta-EF hand domain containing 1 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Pef1</a>
<b>Synonyms</b>	PEF1; penta-EF hand domain containing 1; peflin; penta-EF hand domain-containing protein 1; PEF protein with a long N-terminal hydrophobic domain; Peflin; 2600002E23Rik
<b>Gene ID</b>	<a href="#">67898</a>
<b>mRNA Refseq</b>	<a href="#">NM_026441</a>
<b>Protein Refseq</b>	<a href="#">NP_080717</a>
<b>UniProt ID</b>	<a href="#">Q8BFY6</a>

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