

Product datasheet for **TP505284**

Pomk (NM_029037) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse protein-O-mannose kinase (Pomk), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205284 protein sequence Red =Cloning site Green =Tags(s)
	<p>MGQQHGTRNGLTHRELPRGVGLLLAMALMNVALYLCLDQLFISPGRSTADSRRCPPGYFRMGRMRNCSRW LSCEELRTEVRQLKRVGEGAVKRVFLSEWKEHKVALSRLTRLEMKEDFLHGLQMLKSLQSEHVVTLVGYC EEDGTILTEYHPLGSLNLEETLNLSKYQDVNTWQHRLQLAMEYVSIINYLHHSPLGTRVMCDSNDLPKT LSQYLLTSNFSIVANDLDALPLVDHDSGILIKCGHRELHGDFVAPEQLWPYGEDTPFQDDLMPSYNEKVD IWKIPDVSSFLLGHVEGSDMVRFHFLFDIHKACKSQIPAKRPTAQNVLDAYQRVHSLRDTVMSQTKEML</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	40 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:	<u>NP_083313</u>
Locus ID:	74653
UniProt ID:	<u>Q3TUA9</u>



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RefSeq Size: 3601

Cytogenetics: 8 A2

RefSeq ORF: 1050

Synonyms: 4930444A02Rik; Sgk196

Summary: Protein O-mannose kinase that specifically mediates phosphorylation at the 6-position of an O-mannose of the trisaccharide (N-acetylgalactosamine (GalNAc)-beta-1,3-N-acetylglucosamine (GlcNAc)-beta-1,4-mannose) to generate phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-1,3-N-acetylglucosamine-beta-1,4-(phosphate-6-)mannose). Phosphorylated O-mannosyl trisaccharide is a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity. Only shows kinase activity when the GalNAc-beta-3-GlcNAc-beta-terminus is linked to the 4-position of O-mannose, suggesting that this disaccharide serves as the substrate recognition motif (By similarity).[UniProtKB/Swiss-Prot Function]