

Product datasheet for PH300034

EMC9 (NM_016049) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards **Description:** FAM158A MS Standard C13 and N15-labeled recombinant protein (NP_057133) Species: Human **HEK293 Expression Host:** RC200034 Expression cDNA Clone or AA Sequence: Predicted MW: 23.1 kDa >RC200034 protein sequence **Protein Sequence:** Red=Cloning site Green=Tags(s) MGEVEISALAYVKMCLHAARYPHAAVNGLFLAPAPRSGECLCLTDCVPLFHSHLALSVMLEVALNQVDVW GAQAGLVVAGYYHANAAVNDQSPGPLALKIAGRIAEFFPDAVLIMLDNQKLVPQPRVPPVIVLENQGLRW VPKDKNLVMWRDWEESRQMVGALLEDRAHQHLVDFDCHLDDIRQDWTNQRLNTQITQWVGPTNGNGNA TRTRPLEQKLISEEDLAANDILDYKDDDDKV Tag: C-Myc/DDK **Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining **Concentration:** >0.05 µg/µL as determined by microplate BCA method Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine **Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3 Store at -80°C. Avoid repeated freeze-thaw cycles. Storage: Stability: Stable for 3 months from receipt of products under proper storage and handling conditions. RefSeq: NP 057133 **RefSeq Size:** 896 RefSeq ORF: 624 C14orf122; CGI-112; FAM158A Synonyms: Locus ID: 51016 UniProt ID: O9Y3B6



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GRIGENE EMC9 (NM_016049) Human Mass Spec Standard – PH300034

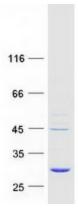
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Cytogenetics:

Summary:

Part of the endoplasmic reticulum membrane protein complex (EMC) that enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed:30415835, PubMed:29809151, PubMed:29242231, PubMed:32459176). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:30415835, PubMed:29809151, PubMed:29242231). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membraneanchor sequences become ER membrane spanning helices (PubMed:30415835, PubMed:29809151). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:29809151, PubMed:29242231). By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N-terminus in the lumen of the ER, controls the topology of multi-pass membrane proteins like the G protein-coupled receptors (PubMed:30415835). By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes (Probable).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified EMC9 protein (Cat# [TP300034]). The protein was produced from HEK293T cells transfected with EMC9 cDNA clone (Cat# [RC200034]) using MegaTran 2.0 (Cat# [TT210002]).

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