Datasheet for ABIN7547635

FAM111A Protein (AA 1-611) (His tag)

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Overview

Quantity:	1 mg
Target:	FAM111A
Protein Characteristics:	AA 1-611
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAM111A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant FAM111A Protein expressed in mammalian cells.
Sequence:	MSCKKQRSRK HSVNEKCNMK IEHYFSPVSK EQQNNCSTSL MRMESRGDPR ATTNTQAQRF HSPKKNPEDQ TMPQNRTIYV TLKVNHRRNQ DMKLKLTHSE NSSLYMALNT LQAVRKEIET HQGQEMLVRG TEGIKEYINL GMPLSCFPEG GQVVITFSQS KSKQKEDNHI FGRQDKASTE CVKFYIHAIG IGKCKRRIVK CGKLHKKGRK LCVYAFKGET IKDALCKDGR FLSFLENDDW KLIENNDTIL ESTQPVDELE GRYFQVEVEK RMVPSAAASQ NPESEKRNTC VLREQIVAQY PSLKRESEKI IENFKKKMKV KNGETLFELH RTTFGKVTKN SSSIKVVKLL VRLSDSVGYL FWDSATTGYA TCFVFKGLFI LTCRHVIDSI VGDGIEPSKW ATIIGQCVRV TFGYEELKDK ETNYFFVEPW FEIHNEELDY AVLKLKENGQ QVPMELYNGI TPVPLSGLIH IIGHPYGEKK QIDACAVIPQ GQRAKKCQER VQSKKAESPE YVHMYTQRSF QKIVHNPDVI TYDTEFFFGA SGSPVFDSKG SLVAMHAAGF AYTYQNETRS IIEFGSTMES ILLDIKQRHK PWYEEVFVNQ QDVEMMSDED L **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make**

Product Details

	another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	FAM111A
Alternative Name:	FAM111A (FAM111A Products)
Background:	Serine protease FAM111A (EC 3.4.21.-),FUNCTION: Single-stranded DNA-binding serine protease that mediates the proteolytic cleavage of covalent DNA-protein cross-links (DPCs) during DNA synthesis, thereby playing a key role in maintaining genomic integrity (PubMed:32165630). DPCs are highly toxic DNA lesions that interfere with essential chromatin transactions, such as replication and transcription, and which are induced by reactive agents, such as UV light or formaldehyde (PubMed:32165630). Protects replication fork from stalling by removing DPCs, such as covalently trapped topoisomerase 1 (TOP1) adducts on DNA lesion, or poly(ADP-ribose) polymerase 1 (PARP1)-DNA complexes trapped by PARP inhibitors (PubMed:32165630). Required for PCNA loading on replication sites (PubMed:24561620). Promotes S-phase entry and DNA synthesis (PubMed:24561620). Acts also as a restriction

Target Details

	factor for some viruses including SV40 polyomavirus and vaccinia virus (PubMed:23093934, PubMed:37607234). Mechanistically, affects nuclear barrier function during viral replication by mediating the disruption of the nuclear pore complex (NPC) via its protease activity (PubMed:33369867, PubMed:37607234). In turn, interacts with vaccinia virus DNA-binding protein OPG079 in the cytoplasm and promotes its degradation without the need of its protease activity but through autophagy (PubMed:37607234). {ECO:0000269|PubMed:24561620, ECO:0000269|PubMed:32165630, ECO:0000269|PubMed:37607234}.
Molecular Weight:	70.2 kDa
UniProt:	Q96PZ2

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

