Datasheet for ABIN7554584

MMS22-Like, DNA Repair Protein (MMS22L) (AA 1-1243) protein (His tag)

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Overview

Quantity:	1 mg
Target:	MMS22-Like, DNA Repair Protein (MMS22L)
Protein Characteristics:	AA 1-1243
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Purpose:	Custom-made recombinant MMS22L Protein expressed in mammalian cells.
Sequence:	MENCSAASTF LTDSLELELG TEWCKPPYFS CAVDNRGGGK HFSGESYLCS GALKRLILNL DPLPTNFEED TLEIFGIQWV TETALVNSSR ELFHLFRQQL YNLETLLQSS CDFGKVSTLH CKADNIRQQC VLFLHYVKVF IFRYLKVQNA ESHVPVHPYE ALEAQLPSVL IDELHGLLLY IGHLSELPSV NIGAFVNQNQ IKLFPPSWHL LHLHLDIHWL VLEILYMLGE KLKQVVYGHQ FMNLASDNLT NISLFEEHCE TLLCDLISLS LNRYDKVRSS ESLMSDQCPC LCIKELWVLL IHLLDHRSKW FVSESFWNWL NKLLKTLLEK SSDRRRSSMP VIQSRDPLGF SWWIITHVAS FYKFDRHGVP DEMRKVESNW NFVEELLKKS ISVQGVILEE QLRMYLHCCL TLCDFWEPNI AIVTILWEYY SKNLNSSFSI SWLPFKGLAN TMKSPLSMLE MVKTCCCDKQ DQELYKSSSS YTIFLCILAK VVKKAMKSNG PHPWKQVKGR IYSKFHQKRM EELTEVGLQN FFSLFLLLAA VAEVEDVASH VLDLLNFLKP AFVTSQRALI WKGHMAFLLM YAQKNLDIGV LAEKFSCAFR EKAKEFLVSK NEEMVQRQTI WTLLSIYIDG VQEVFETSYC LYPSHEKLLN DGFSMLLRAC RESELRTVLS FLQAVLARIR SMHQQLCQEL QRDNVDLFVQ SSLSAKERHL AAVASALWRH

Product Details

	FFSFLKSQRM SQVVPFSQLA DAAADFTLLA MDMPSTAPSD FQPQPVISII QLFGWDDIIC PQVVARYLSH VLQNSTLCEA LSHSGYVSFQ ALTVRSWIRC VLQMYIKNLS GPDDLLIDKN LEEAVEKEYM KQLVKLTRLL FNLSEVKSIF SKAQVEYLSI SEDPKKALVR FFEAVGVTYG NVQTLSDKSA MVTKSLEYLG EVLKYIKPYL GKKVFSAGLQ LTYGMMGILV KSWAQIFATS KAQKLLFRII DCLLLPHAVL QQEKELPAPM LSAIQKSLPL YLQGMCIVCC QSQNPNAYLN QLLGNVIEQY IGRFLPASPY VSDLGQHPVL LALRNTATIP PISSLKKCIV QVIRKSYLEY KGSSPPPRLA SILAFILQLF KETNTDIYEV ELLLPGILKC LVLVSEPQVK RLATENLQYM VKACQVGSEE EPSSQLTSVF RQFIQDYGMR YYYQVYSILE TVATLDQQVV IHLISTLTQS LKDSEQKWGL GRNIAQREAY SKLLSHLGQM GQDEMQRLEN DNT **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make 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:	MMS22-Like, DNA Repair Protein (MMS22L)

Target Details

Alternative Name:	MMS22L (MMS22L Products)
Background:	Protein MMS22-like (Methyl methanesulfonate-sensitivity protein 22-like),FUNCTION: Component of the MMS22L-TONSL complex, a complex that promotes homologous recombination-mediated repair of double-strand breaks (DSBs) at stalled or collapsed replication forks (PubMed:21055983, PubMed:21055984, PubMed:21055985, PubMed:21113133, PubMed:26527279, PubMed:27338793, PubMed:29478807). The MMS22L-TONSL complex is required to maintain genome integrity during DNA replication (PubMed:21055983, PubMed:21055984, PubMed:21055985, PubMed:27797818). It mediates the assembly of RAD51 filaments on single-stranded DNA (ssDNA): the MMS22L-TONSL complex is recruited to DSBs following histone replacement by histone chaperones and eviction of the replication protein A complex (RPA/RP-A) from DSBs (PubMed:21055983, PubMed:21055984, PubMed:21055985, PubMed:29478807). Following recruitment to DSBs, the TONSL-MMS22L complex promotes recruitment of RAD51 filaments and subsequent homologous recombination (PubMed:27797818, PubMed:29478807). Within the complex, MMS22L acts by binding ssDNA (PubMed:27797818). {ECO:0000269|PubMed:21055983, ECO:0000269|PubMed:21055984, ECO:0000269|PubMed:21055985, ECO:0000269|PubMed:21113133, ECO:0000269|PubMed:26527279, ECO:0000269|PubMed:27338793, ECO:0000269|PubMed:27797818, ECO:0000269|PubMed:29478807}.
Molecular Weight:	142.3 kDa
UniProt:	Q6ZRQ5

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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months