Datasheet for ABIN7554575

MORC3 Protein (AA 1-939) (His tag)

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Overview

Quantity:	1 mg
Target:	MORC3
Protein Characteristics:	AA 1-939
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MORC3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MORC3 Protein expressed in mammalian cells.
Sequence:	MAAQPPRGIR LSALCPKFLH TNSTSHTWPF SAVAELIDNA YDPDVNAKQI WIDKTVINDH ICLTFTDNGN GMTSDKLHKM LSFGFSDKVT MNGHVPVGLY GNGFKSGSMR LGKDAIVFTK NGESMSVGLL SQTYLEVIKA EHVVVPIVAF NKHRQMINLA ESKASLAAIL EHSLFSTEQK LLAELDAIIG KKGTRIIIWN LRSYKNATEF DFEKDKYDIR IPEDLDEITG KKGYKKQERM DQIAPESDYS LRAYCSILYL KPRMQIILRG QKVKTQLVSK SLAYIERDVY RPKFLSKTVR ITFGFNCRNK DHYGIMMYHR NRLIKAYEKV GCQLRANNMG VGVVGIIECN FLKPTHNKQD FDYTNEYRLT ITALGEKLND YWNEMKVKKN TEYPLNLPVE DIQKRPDQTW VQCDACLKWR KLPDGMDQLP EKWYCSNNPD PQFRNCEVPE EPEDEDLVHP TYEKTYKKTN KEKFRIRQPE MIPRINAELL FRPTALSTPS FSSPKESVPR RHLSEGTNSY ATRLLNNHQV PPQSEPESNS LKRRLSTRSS ILNAKNRRLS SQFENSVYKG DDDDEDVIIL EENSTPKPAV DHDIDMKSEQ SHVEQGGVQV EFVGDSEPCG QTGSTSTSSS RCDQGNTAAT QTEVPSLVVK KEETVEDEID VRNDAVILPS CVEAEAKIHE TQETTDKSAD DAGCQLQELR NQLLLVTEEK ENYKRQCHMF

Product Details

	TDQIKVLQQR ILEMNDKYVK KETCHQSTET DAVFLLESIN GKSESPDHMV SQYQQALEEI ERLKKQCSAL QHVKAECSQC SNNESKSEMD EMAVQLDDVF RQLDKCSIER DQYKSEVELL EMEKSQIRSQ CEELKTEVEQ LKSTNQQTAT DVSTSSNIEE SVNHMDGESL KLRSLRVNVG QLLAMIVPDL DLQQVNYDVD VVDEILGQVV EQMSEISST **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:	MORC3
Alternative Name:	MORC3 (MORC3 Products)
Background:	MORC family CW-type zinc finger protein 3 (Nuclear matrix protein 2) (Zinc finger CW-type coiled-coil domain protein 3),FUNCTION: Nuclear matrix protein which forms MORC3-NBs (nuclear bodies) via an ATP-dependent mechanism and plays a role in innate immunity by restricting different viruses through modulation of the IFN response (PubMed:27440897,

Target Details

	PubMed:34759314). Mechanistically, possesses a primary antiviral function through a MORC3-regulated element that activates IFNB1, and this function is guarded by a secondary IFN-repressing function (PubMed:34759314). Sumoylated MORC3-NBs associates with PML-NBs and recruits TP53 and SP100, thus regulating TP53 activity (PubMed:17332504, PubMed:20501696). Binds RNA in vitro (PubMed:11927593). Histone methylation reader which binds to non-methylated (H3K4me0), monomethylated (H3K4me1), dimethylated (H3K4me2) and trimethylated (H3K4me3) 'Lys-4' on histone H3 (PubMed:26933034). The order of binding preference is H3K4me3 > H3K4me2 > H3K4me1 > H3K4me0 (PubMed:26933034). {ECO:0000269|PubMed:11927593, ECO:0000269|PubMed:17332504, ECO:0000269|PubMed:20501696, ECO:0000269|PubMed:26933034, ECO:0000269|PubMed:27440897, ECO:0000269|PubMed:34759314}., FUNCTION: (Microbial infection) May be required for influenza A transcription during viral infection (PubMed:26202233). {ECO:0000269|PubMed:26202233}.
Molecular Weight:	107.1 kDa
UniProt:	Q14149
Pathways:	Maintenance of Protein Location

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

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