

Datasheet for ABIN7562147

MORC3 Protein (AA 1-942) (His tag)



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Overview

Quantity:	1 mg
Target:	MORC3
Protein Characteristics:	AA 1-942
Origin:	Mouse
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:	<p>MAAQPTGIR LSALCPKFLH TNSTSHTWPF SAVAELIDNA YDPDVNAKQI WIDKTVISDH</p> <p>ICLTFTDNGN GMTADKLHKM LSFGFSDKVT MNGHVPVGLY GNGFKSGSMR LGKDAMVFTK</p> <p>NGETMSVGFL SQTYLEVIKA EHVVPVIVTF NKHRQMINLT ESKASLAAIL EHSLFSTEQK</p> <p>LLAELNAIMG KKGTRIIWN LRSYKNATEF DFEKDKYDIR IPEDLDETAG RKGYYKKQERM</p> <p>DQIAPESDYS LRAYCSILYL KPRMQIIIRG QKVKTQLVSK SLAYIERDVY RPKFLTRTVR</p> <p>ITFGFNCRNK DHYGIMMYHK NRLIKAYEKV GCQLKANNMG VGVVGIIECN FLKPTHNKQD</p> <p>FDYTNEYRLT ILALGEKLND YWNEMKVKKK AEYPVNLPVE DIQKRPDQTW VQCDACLKWR</p> <p>KLPDGIDQLP EKWYCSNNPD PQFRNCEVPE EPEDEDLVHP TYEKTYKKTS KERFRIRQPE</p> <p>ILPRILPQIN PELLYQTSVS SQSFSPVKES VPRPHLSEVT SPFAARIINL NLASPASEPE</p> <p>NSSMKRKLGV HSSILNAKTR RLSNPPVENS SYKNDDDEDV IILEENSTPK PAVDLEVKSD</p> <p>IEVKSEQSHT EQSGIHVDLV SSPKPCVQAS STSTSTSRSD PGITVSTQTD APGLTVKKEE</p> <p>SMEEDMGVRN GTATLSCVGT EAKVQETSAE SVDATSHQLQ ELRSELLVVT QERDDYKRQC</p>

QMFTDQIQVL QQRLLMNDK CVKKEKCHQS TETDAVFLLD SVNGQAESLD HLGSYQQAL
QEIERLKRQC SALQQVKSEC SQASCTESKS EVDEMAVQLD DVFRQLDKCT IERDQYKNEV
QLLEIEKSHI HSQCEELQTE VEQLKSTGQQ AAADGSTASN AEEPVSYYDG ESLKLRSLRV
NVGQLLAMIV PDLDLQQVNY DVDVDEILG QVVEQMSEIS ST **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>

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. Mechanistically,

Target Details

possesses a primary antiviral function through a MORC3-regulated element that activates IFNB1, and this function is guarded by a secondary IFN-repressing function. Sumoylated MORC3-NBs associates with PML-NBs and recruits TP53 and SP100, thus regulating TP53 activity (PubMed:17332504). Binds RNA in vitro. Histone methylation reader which binds to non-methylated (H3K4me0), monomethylated (H3K4me1), dimethylated (H3K4me2) and trimethylated (H3K4me3) 'Lys-4' on histone H3. The order of binding preference is H3K4me3 > H3K4me2 > H3K4me1 > H3K4me0. {ECO:0000250|UniProtKB:Q14149, ECO:0000269|PubMed:17332504}.

Molecular Weight: 106.5 kDa

UniProt: [F7BJB9](#)

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