# Far Upstream Element-Binding Protein 2 (KHSRP) Rat Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Far upstream element-binding protein 2 (Khsrp), Recombinant Protein |
| **Full Product Name** | Recombinant Rat Far upstream element-binding protein 2 (Khsrp) |
| **Product Gene Name** | Khsrp recombinant protein |
| **Product Synonym Gene Name** | Khsrp |
| **Sequence** | SDYSTGGPPP GPPPPAGGGG GAAGAGGGPP PGPPGAGDRG GGGPGGGGPG GGGASGGPSQ PPGGGGPGIR KDAFADAVQR ARQIAAKIGG DAATTVNNNT PDFGFGGQKR QLEDGDQPDS KKLASQGDSI GSQLGPIHPP PRTSMTEEYR VPDGMVGLII GRGGEQINKI QQDSGCKVQI SPDSGGLPER SVSLTGAPES VQKAKMMLDD IVSRGRGGPP GQFHDNANGG QNGTVQEIMI PAGKAGLVIG KGGETIKQLQ ERAGVKMILI QDGSQNTNVD KPLRIIGDPY KVQQACEMVM DILRERDQGG FGDRNEYGSR VGGGIDVPVP RHSVGVVIGR SGEMIKKIQN DAGVRIQFKQ DDGTGPEKIA HIMGPPDRCE HAARIINDLL QSLRSGPPGP PGAPGMPPGG RGRGRGQGNW GPPGGEMTFS IPTHKCGLVI GRGGENVKAI NQQTGAFVEI SRQLPPNGDP NFKLFVIRGS PQQIDHAKQL IEEKIEGPLC PVGPGPGGPG PAGPMGPFHP GPFNQGPPGA PPHAGGPPPH QYPPQGWGNT YPEWQPPAPH DPNKAAAAAT DPNAAWAAYY SHYYQQPPGP VPGPAPAPAA PPAQGEPPQP PPTGQSDYTK AWEEYYKKIG QQPQQPGAPP QQDYTKAWEE YYKKQAQVAT GGGPGAPPGS QPDYSAAWAE YYRQQAAYYG QTPGPGGPQP PSTQQGQQQA TEANGYELHL |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 74,226 Da |
| **Sequence Positions** | 2-721, full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q99PF5 |
| **Species** | Rat |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for Khsrp recombinant protein** | MBS1341119 is a recombinant protein targeting Khsrp. Also known as Recombinant Rat Far upstream element-binding protein 2 (Khsrp). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of Khsrp recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Khsrp. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 19424312 |

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| **NCBI GeneID** | 171137 |
| **NCBI Accession #** | NP_598286.1 |
| **UniProt Primary Accession #** | Q99PF5 |
| **UniProt Related Accession #** | Q99PF5 |
| **GenBank Nucleotide #** | NM_133602.1 |
| **NCBI Official Full Name** | far upstream element-binding protein 2 |
| **NCBI Official Synonym Full Names** | KH-type splicing regulatory protein |
| **NCBI Official Symbol** | Khsrp |
| **NCBI Official Synonym Symbols** | Marta1 |
| **UniProt Protein Name** | Far upstream element-binding protein 2 |
| **UniProt Synonym Protein Names** | KH type-splicing regulatory protein; KSRP; MAP2 RNA trans-acting protein 1; MARTA1 |
| **Protein Family** | Far upstream element-binding protein |
| **UniProt Gene Name** | Khsrp |
| **UniProt Synonym Gene Names** | Fubp2; FUSE-binding protein 2; KSRP; MARTA1 |
| **NCBI Protein Information** | far upstream element-binding protein 2 |
| **NCBI Summary for Khsrp** | binds to the microtubule-associated protein 2 (Map2) 3 dendritic targeting element; may play a role in nucleocytoplasmic mRNA targeting [RGD, Feb 2006] |
| **UniProt Comments for Khsrp** | Part of a ternary complex that binds to the downstream control sequence (DCS) of the pre-mRNA. Mediates exon inclusion in transcripts that are subject to tissue-specific alternative splicing. May interact with single-stranded DNA from the far-upstream element (FUSE). May activate gene expression. Also involved in degradation of inherently unstable mRNAs that contain AU-rich elements (AREs) in their 3'-UTR, possibly by recruiting degradation machinery to ARE-containing mRNAs (). Binds to the dendritic targeting element and may play a role in mRNA trafficking. |
| **Research Articles on Khsrp** | **1.** KSRP modulation of GAP-43 mRNA stability restricts axonal outgrowth in embryonic hippocampal neurons. |
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