# Calcyphosin-2 (CAPS2) Mouse Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Calcyphosin-2 (Caps2), Recombinant Protein |
| **Full Product Name** | Recombinant Mouse Calcyphosin-2 (Caps2) |
| **Product Gene Name** | Caps2 recombinant protein |
| **Product Synonym Gene Name** | Caps2 |
| **Sequence** | MVPPLDLGSL VDSDEEDNFS QTARGTVHVH LNPPRSEPAL GWVLPCQRPN SQHRLQEVEQ DVIPEDLPAP TGKYRLKYQQ YASEMKDGYK QYIQRSTEKP KAASRPEATE KVEGASLDDL MTLDRKALLQ QGYADSPYGR QSITRKSDVE TVAIEKKKQT VAEQMMMDHL SRAVISDPEQ DLNTKNQESS RVPPDSERAP LRVRRRTLHE TKIRTNSALT ENDLSQKVEF DGRVLSRNGR DACRELIGFF FAHDQSLTVY EYRMFGKNRT SVLPFIKKDI YHHQCGRRKG KQYELGDVYT GATLTFLSCD QPSLPKTIKE NALLRLRITN IDQVALNSLK AASAEHGEEE AVSPEAHDQL VLQAIQDKLK EQLHKKGARI LTGLGRYFQG LDKEGNGLLE KADFQQALKT FHLEVSEQDF ESFWLILQGY GHSKNKVDYG EFKRAIFGEM NEYRKSFVRK AFMQLDFNKT GIVSVIDIRK CYCAKKHPRV ISGHSTEEEI KSSFLETLKG TCSKCDEVSY GEFEDYYEGL SIGVAGDEDF VNILRIPWRI |
| **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** | 48,642 Da |
| **Sequence Positions** | 1-550, 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 Q8BUG5 |
| **Species** | Mouse |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for Caps2 recombinant protein** | MBS1472507 is a recombinant protein targeting Caps2. Also known as Recombinant Mouse Calcyphosin-2 (Caps2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of Caps2 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 Caps2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 891212314 |
| **NCBI GeneID** | 353025 |
| **NCBI Accession #** | NP_001297604.1 |

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| **UniProt Primary Accession #** | Q8BUG5 |
| **UniProt Secondary Accession #** | Q8C1J6; G3X9M5 |
| **UniProt Related Accession #** | Q8BUG5 |
| **GenBank Nucleotide #** | NM_001310675.1 |
| **NCBI Official Full Name** | calcyphosin-2 isoform 2 |
| **NCBI Official Synonym Full Names** | calcyphosphine 2 |
| **NCBI Official Symbol** | Caps2 |
| **NCBI Official Synonym Symbols** | D630005B03Rik |
| **UniProt Protein Name** | Calcyphosin-2 |
| **UniProt Synonym Protein Names** | Calcyphosine-2 |
| **Protein Family** | Calcyphosin |
| **UniProt Gene Name** | Caps2 |
| **NCBI Protein Information** | calcyphosin-2 |
| **Research Articles on Caps2** | **1.** These results suggest that Caps2 KO mice have altered endocrine responses to CORT administration, while maintaining CORT-induced anxiety/depressive-like behavior. |
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