# Trinucleotide Repeat-Containing Gene 6a Protein (TNRC6A) Mouse Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Trinucleotide repeat-containing gene 6A protein (Tnrc6a), Recombinant Protein |
| **Full Product Name** | Recombinant Mouse Trinucleotide repeat-containing gene 6A protein (Tnrc6a) , partial |
| **Product Gene Name** | Tnrc6a recombinant protein |
| **Product Synonym Gene Name** | Tnrc6a |
| **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** | 203,150 Da |
| **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 Q3UHK8 |
| **Species** | Mouse |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for Tnrc6a recombinant protein** | This gene encodes a member of the trinucleotide repeat containing 6 protein family. The protein functions in post-transcriptional gene silencing through the RNA interference (RNAi) and microRNA pathways. The protein associates with messenger RNAs and Argonaute proteins in cytoplasmic bodies known as GW-bodies or P-bodies. Inhibiting expression of this gene delocalizes other GW-body proteins and impairs RNAi and microRNA-induced gene silencing. |
| **Other Notes** | Small volumes of Tnrc6a 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. |
| **Searchable Terms for Tnrc6a purchase** | MBS1305004 is a recombinant protein targeting Tnrc6a. Also known as Recombinant Mouse Trinucleotide repeat-containing gene 6A protein (Tnrc6a) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tnrc6a. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 117190552 |
| **NCBI GeneID** | 233833 |
| **NCBI Accession #** | NP_659174.3 |
| **UniProt Primary Accession #** | Q3UHK8 |
| **UniProt Secondary Accession #** | F6ZMJ4 |
| **UniProt Related Accession #** | Q3UHK8 |

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| **GenBank Nucleotide #** | NM_144925.3 |
| **NCBI Official Full Name** | trinucleotide repeat-containing gene 6A protein |
| **NCBI Official Synonym Full Names** | trinucleotide repeat containing 6a |
| **NCBI Official Symbol** | Tnrc6a |
| **NCBI Official Synonym Symbols** | GW182; Tnrc6; CAGH26; AW557223; 2010321I05Rik; 3110054G10Rik; D130023A07Rik |
| **UniProt Protein Name** | Trinucleotide repeat-containing gene 6A protein |
| **Protein Family** | Trinucleotide repeat-containing gene 6A protein |
| **UniProt Gene Name** | Tnrc6a |
| **UniProt Synonym Gene Names** | Kiaa1460 |
| **NCBI Protein Information** | trinucleotide repeat-containing gene 6A protein |
| **NCBI Summary for Tnrc6a** | This gene encodes a member of the trinucleotide repeat containing 6 protein family. The protein is highly similar to a human protein that functions in post-transcriptional gene silencing through the RNA interference (RNAi) and microRNA pathways. The human protein associates with messenger RNAs and argonaute proteins in cytoplasmic bodies known as GW-bodies or P-bodies, and inhibiting its expression delocalizes other GW-body proteins and impairs RNAi and microRNA-induced gene silencing. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for Tnrc6a** | Plays a role in RNA-mediated gene silencing by both micro-RNAs (miRNAs) and short interfering RNAs (siRNAs) (PubMed:22187428). Required for miRNA-dependent repression of translation and for siRNA-dependent endonucleolytic cleavage of complementary mRNAs by argonaute family proteins (PubMed:22187428). As a scaffolding protein, associates with argonaute proteins bound to partially complementary mRNAs, and can simultaneously recruit CCR4-NOT and PAN deadenylase complexes (). |
| **Research Articles on Tnrc6a** | **1.** GW182 is an essential functional component in the RNA-induced silencing complex for miRNA-mediated gene silencing in vivo |
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