# Recombinant TBC3E protein (His tag)

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| **Catalog Number** | 551051 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | A0A087X179 |
| **Molecular Weight** | Predictes a molecular mass of 27.22 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band. |

## Product Information

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| **Sequence Region** | 1-217 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >87%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 1-217 aa (A0A087X179) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant TBC1 domain family member 3E (TBC1D3E) fragment (amino acids 1-217) from Homo sapiens, designed for structural and biochemical studies. This fragment represents a stable, soluble unit of the protein, ideal for investigating its role as a GTPase activating protein for RAB5.<br>TBC1D3E is a human protein that functions as a GTPase activating protein (GAP) specifically for RAB5, regulating its activity in intracellular trafficking pathways. It does not exhibit GAP activity toward RAB4 or RAB11. The protein is localized to the cell membrane, where it is lipid-anchored and associated with lipid rafts, suggesting a role in membrane dynamics and signaling processes. This recombinant fragment enables focused analysis of its functional domains without solubility challenges. |