

## Active Recombinant Mouse Trex1 protein, His&Myc-tagged

**Cat. No.** Trex1-4639M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Active Recombinant Mouse Trex1 protein(Q91XB0)(1-314aa), fused with N-terminal His tag and C-terminal Myc tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 1-314aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tag</b>              | N-His&C-Myc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Form</b>             | Tris-based buffer, 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Bio-activity</b>     | TREX1 exonuclease activity liberates free fluorophore from DNA containing a 5'-fluorophore and a 3'-quencher to generate a fluorescent signal. Compound-mediated inhibition of TREX1 activity would be anticipated to reduce fluorescent signal. All reactions were conducted in 20 uL total volumes in 384-well F-bottom polystyrene microplates at 25 °C. Assay buffer consisted of: 25 mM HEPES (pH 7.5), 20 mM KCl, 1 mM DTT, 0.1 mg/mL BSA, 0.01% Triton X-100, 0.25 mM EDTA and 10 mM MgCl <sub>2</sub> . Reactions were initiated upon the addition dsDNA (oligo 1: /5TEX615/GCTAGGCAG and oligo 2: CTGCCTAGC/3IAbRQSp/ stocks in DNA duplex buffer at a final concentration of 230nM. Fluorescence was measured every two minutes for 60 minutes at 615 nm emission and 570 nm excitation at 25 °C using a NEO plate reader. |

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 41.1 kDa                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>         | Greater than 85% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>        | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                              |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                                                                                                                               |
| <b>AA Sequence</b>    | <p>MGSQTLPHGHMQTLIFLDLEATGLPSSRPEVTELCLLAVHRRALENTSISQGHPPP</p> <p>PRPPRVVDKLSLCIAPGKACSPGASEITGLSKAELEVQGRQRFDDNLAILLRAFLQRQ</p> <p>PQPCCLVAHNGDRYDFPLLQTELARLSTPSPLDGTFCVDSIAALKALEQASSPSGNG</p> <p>SRKSYSLGSIYTRYLYWQAPTDSTAEGDVLTLTLLSICQWKPQALLQWVDEHARPFST</p> <p>VKPMYGTTPATTGTTNLRPHAATATTPLATANGSPSNGRSRRPKSPPPEKVPEAPSQ</p> <p>EGLLAPLSLLTLLTLAIATLYGLFLASPGQ</p> |

## GENE INFORMATION

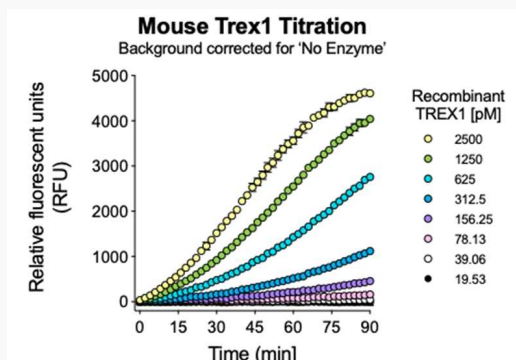
|                        |                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Trex1 three prime repair exonuclease 1 [ Mus musculus ]</a>                                                                        |
| <b>Official Symbol</b> | <a href="#">Trex1</a>                                                                                                                          |
| <b>Synonyms</b>        | TREX1; three prime repair exonuclease 1; DNase III; 3-5 exonuclease TREX1; trophoblast expressed 1; three prime exonuclease 1; 1661; AU041952; |
| <b>Gene ID</b>         | <a href="#">22040</a>                                                                                                                          |
| <b>mRNA Refseq</b>     | <a href="#">NM_001012236</a>                                                                                                                   |
| <b>Protein Refseq</b>  | <a href="#">NP_001012236</a>                                                                                                                   |

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## Activity



## SDS-PAGE

