

## Recombinant Human thioredoxin reductase 3 neighbor, His-tagged

**Cat. No.** TXNRD3NB-287H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | TXNRD3NB, 1-133aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 1-133 a.a.                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | TXNRD3NB is expressed in pancreas, esophagus, bone marrow and keratinocytes. This protein shares overlapping exons with TXNRD3. The initiation codon is found in exon 3 of the TXNRD3IT1 gene. Recombinant human TXNRD3NB protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl(pH 8.0) containing 30% glycerol, 0.15M NaCl, 1mM DTT                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 16.7 kDa (156aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMRDLSE RLGQPELKAE QQMPLEPVRA<br>RLSVGLACCC SHTTAEASSL EHGDVFGQG FPSPLEEIKR LLKISRALQA<br>RSVPSTQEKA KCLSGEPGQP EGKGQETYPG PGKVEGKAEP AMRKDDVCPG<br>MKCISG                                                                                                                                                                       |
| <b>Purity</b>           | >85% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                       |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                   |
| <b>Concentration</b>       | 0.25mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                             |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>           | TXNRD3NB <thioiredoxin 3="" [?homo="" ]<="" neighbor="" reductase="" sapiens?(human)="" th=""></thioiredoxin>                                                                                                                                                                                                        |
| <b>Official Symbol</b>     | TXNRD3NB                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>            | TXNRD3NB; TR2IT1; TXNRD3IT1; TXNRD3NT1; thioiredoxin reductase 3 neighbor; protein TXNRD3NB; TXNRD3 neighbor gene protein; thioiredoxin reductase 3 new transcript 1; thioiredoxin reductase 2 intronic transcript 1; thioiredoxin reductase 3 intronic transcript 1; thioiredoxin reductase 3 neighbor gene protein |
| <b>Gene ID</b>             | 645840                                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_001039783                                                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>      | NP_001034872                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | Q6F5E7                                                                                                                                                                                                                                                                                                               |
| <b>Chromosome Location</b> | 3q21.3                                                                                                                                                                                                                                                                                                               |
| <b>Pathway</b>             | Selenium Metabolism and Selenoproteins; Selenium Pathway                                                                                                                                                                                                                                                             |

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