

Product datasheet for **AR50994PU-N**

Thyrotroph embryonic factor (TEF) (1-303, His-tag) Human Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Thyrotroph embryonic factor (TEF) (1-303, His-tag) human protein, 0.1 mg |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MGSMSDAGGG KKPPVDPQAG PGPGPGRAAG ERGLSGSFPL VLKMLMENPP REARLDKEKG KEKLEEDEAA AASTMAVSAS LMPPIWDKTI PYDGESFHLE YMDLDEFLE NGIPASPTHL AHNLLLPVAE LEGKESASSS TASPPSSSTA IFQPSETVSS TESSLEKERE TPSPIDPNCV EVDVNFNPDP ADLVLSSVPG GELFNPRKHK FAEEDLKPQP MIKKAKKVVF PDEQKDEKYW TRRKKNNVAA KRSRDARRLK ENQITIRAAF LEKENTALRT EVAELRKEVG KCKTIVSKYE TKYGPL |
| Tag: | His-tag |
| Predicted MW: | 35.6 kDa |
| Concentration: | lot specific |
| Purity: | >85% by SDS - PAGE |
| Buffer: | Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol |
| Preparation: | Liquid purified protein |
| Storage: | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| RefSeq: | <u>NP_001138870</u> |
| Locus ID: | 7008 |
| UniProt ID: | <u>Q10587</u> |
| Cytogenetics: | 22q13.2 |



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Summary:

This gene encodes a member of the PAR (proline and acidic amino acid-rich) subfamily of basic region/leucine zipper (bZIP) transcription factors. It is expressed in a broad range of cells and tissues in adult animals, however, during embryonic development, TEF expression appears to be restricted to the developing anterior pituitary gland, coincident with the appearance of thyroid-stimulating hormone, beta (TSHB). Indeed, TEF can bind to, and transactivate the TSHB promoter. It shows homology (in the functional domains) with other members of the PAR-bZIP subfamily of transcription factors, which include albumin D box-binding protein (DBP), human hepatic leukemia factor (HLF) and chicken vitellogenin gene-binding protein (VBP); VBP is considered the chicken homologue of TEF. Different members of the subfamily can readily form heterodimers, and share DNA-binding, and transcriptional regulatory properties. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Protein Families:

Transcription Factors

Product images: