Thyrotroph Embryonic Factor (TEF) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Thyrotroph Embryonic Factor (TEF), ELISA Kit
Full Product Name	Chicken Thyrotroph Embryonic Factor ELISA Kit
Product Gene Name	TEF elisa kit
Species Reactivity	Chicken
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	33,248 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (41763337..41795332). Location: 22q13.2
OMIM	188595
3D Structure	ModBase 3D Structure for Q10587
Related Product Information for TEF elisa kit	MBS016628 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Thyrotroph Embryonic Factor (TEF) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TEF. The ELISA analytical biochemical technique of the MBS016628 kit is based on TEF antibody-TEF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TEF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TEF. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of TEF elisa kit 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.

ADDITIONAL DETAILS

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

NCBI GI #	223972670
NCBI GeneID	7008
NCBI Accession #	NP_001138870.1
UniProt Primary Accession #	Q10587
UniProt Secondary Accession #	Q15729; Q7Z3J7; Q8IU94; Q96TG4; B0QYS8; B2RC22
UniProt Related Accession #	Q10587
GenBank Nucleotide #	NM_001145398.2
NCBI Official Full Name	thyrotroph embryonic factor isoform 2
NCBI Official Synonym Full Names	thyrotrophic embryonic factor
NCBI Official Symbol	TEF
UniProt Protein Name	Thyrotroph embryonic factor
Protein Family	Protein teflon

UniProt Gene Name	TEF
UniProt Synonym Gene Names	KIAA1655
UniProt Entry Name	TEF_HUMAN
NCBI Protein Information	thyrotroph embryonic factor
NCBI Summary for TEF	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]
UniProt Comments for TEF	TEF: Transcription factor that binds to and transactivates the TSHB promoter. Binds to a minimal DNA-binding sequence 5'- [TC][AG][AG]TTA[TC][AG]-3'. Belongs to the bZIP family. PAR subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 22q13.2 Cellular Component: nucleus Molecular Function: protein homodimerization activity; sequence-specific DNA binding; protein heterodimerization activity; double-stranded DNA binding; transcription factor activity Biological Process: regulation of transcription from RNA polymerase II promoter; transcription, DNA-dependent; rhythmic process; positive regulation of transcription from RNA polymerase II promoter
Research Articles on TEF	**1.** The polymorphism of Tef rs738499 is associated with depression symptoms in parkinson disease.
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