

## TEF Knockout cell line (A549)

Catalog Number: KO35062

| Product Information        |                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name               | TEF Knockout cell line (A549)                                                                                                                                          |
| specification              | 1*10 <sup>6</sup>                                                                                                                                                      |
| Storage and transportation | Dry ice preservation/T25 live cell transportation.                                                                                                                     |
| Cell morphology            | Epithelioid, adherent cell                                                                                                                                             |
| Passage ratio              | 1:3~1:4                                                                                                                                                                |
| species                    | Human                                                                                                                                                                  |
| Gene                       | TEF                                                                                                                                                                    |
| Gene ID                    | 7008                                                                                                                                                                   |
| Build method               | Electric rotation method / virus method                                                                                                                                |
| Mycoplasma testing         | Negative                                                                                                                                                               |
| Cultivation system         | 90% F12K+10% FBS                                                                                                                                                       |
| Parental Cell Line         | A549                                                                                                                                                                   |
| Quality Control            | Genotype: TEF Knockout cell line (A549) >95% viability before freezing. All cells were tested and found to be free of bacterial, viruses, mycoplasma and other toxins. |

| Gene Information        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Gene Official Full Name | TEF transcription factor, PAR bZIP family member provided by HGNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Description        | 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] |
| Expression              | Ubiquitous expression in brain (RPKM 21.5), ovary (RPKM 19.9) and 24 other tissues See more                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

