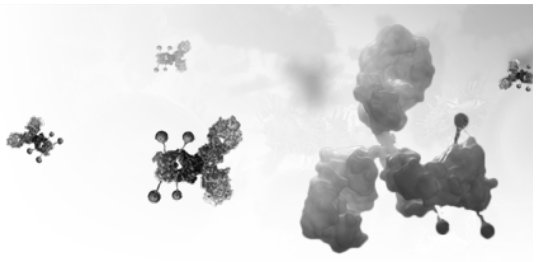

# TFE3 peptide (DAG-P1206)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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|---|---|
| **Antigen Description** | This gene encodes a basic helix-loop-helix domain-containing transcription factor that binds MUE3-type E-box sequences in the promoter of genes. The encoded protein promotes the expression of genes downstream of transforming growth factor beta (TGF-beta) signaling. This gene may be involved in chromosomal translocations in renal cell carcinomas and other cancers, resulting in the production of fusion proteins. Translocation partners include PRCC (papillary renal cell carcinoma), NONO (non-POU domain containing, octamer-binding), and ASPSCR1 (alveolar soft part sarcoma chromosome region, candidate 1), among other genes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013] |
| **Specificity** | Ubiquitous in fetal and adult tissues. |
| **Purity** | 70 - 90% by HPLC. |
| **Conjugate** | Unconjugated |
| **Sequence Similarities** | Belongs to the MiT/TFE family.Contains 1 basic helix-loop-helix (bHLH) domain. |
| **Preservative** | None |
| **Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request. |

## GENE INFORMATION

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| **Gene Name** | TFE3 transcription factor binding to IGHM enhancer 3 [ Homo sapiens (human) ] |
| **Official Symbol** | TFE3 |
| **Synonyms** | TFE3; transcription factor binding to IGHM enhancer 3; TFEA; RCCP2; RCCX1; bHLHe33; transcription factor E3; transcription factor for IgH enhancer; transcription factor E family, member A; class E basic helix-loop-helix protein 33; transcription factor for immunoglobulin |

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

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|---|---|
| | heavy-chain enhancer 3; |
| **Entrez Gene ID** | 7030 |
| **mRNA Refseq** | NM_001282142.1 |
| **Protein Refseq** | NP_001269071.1 |
| **UniProt ID** | B4DIA5 |
| **Chromosome Location** | Xp11.22 |
| **Pathway** | E2F transcription factor network, organism-specific biosystem; Regulation of nuclear SMAD2/3 signaling, organism-specific biosystem; TGF Beta Signaling Pathway, organism-specific biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem; |
| **Function** | protein dimerization activity; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding; |

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